

D-5577



THE

PLANTS

INDIGENOUS TO

THE COLONY OF VICTORIA,

DESCRIBED BY

FERDINAND MUELLER,

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LITHOGRAMS.

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INTRODUCTION.

THIS volume, illustrative of Victorian Plants, has been issued separately from the descriptive portion of the work, with a view of rendering the plates independently available for study, and of adding to their number as occasions in future may arise. The explanatory notes appended to each table may suffice to convey to the observer an outline of the principal characters of those species, and many of the discriminative marks of genera and orders, which these lithograms are intended to unfold. The issue of the describing pages of the work, for which the material is partly prepared and partly prearranged, has been temporarily deferred, in order that precedence of publication may be given to the corresponding volumes on the universal empire of plants of Australia, emanating in London from the President of the Linnean Society, under the aid of the Melbourne phytologic establishment; by which arrangement the opportunities will be afforded to consult the views adopted by that illustrious and veteran phytographer for the general arrangement and special limitation of the plants of all Australia, as comprehensively compared with those hitherto known from any other parts of the globe, and as resting on identifications of species formerly but imperfectly circumscribed.

CONTENTS.

| | | | |
|---|----------|--|----------|
| Acacia Mitchelli, Benth. (Suppl. Plate) ... | Plate 12 | Myriogyne Cunninghamsi, Cand. ... | Plate 41 |
| pravissima, F. M. ... | 24 | Myrsine variabilis, R. Br. ... | 53 |
| Antennaria nubigena, F. M. ... | 45 | Notelæa ligustrina, Vent. ... | 54 |
| Bauera sessiliflora, F. M. ... | 16 | Panax dendroides, F. M. ... | 28 |
| Bertya oleifolia, Planch. ... | 20 | Persoonia Caley, R. Br. ... | 69 |
| Boerhaavia mutabilis, R. Br. ... | 67 | Plantago stellaris, F. M. ... | 66 |
| Calotis cymbacantha, F. M. ... | 36 | Polycalymma Stuartii, Sond. & Muell. ... | 42 |
| Cassia platypoda, R. Br. ... | 25 | Polypompholyx exigua, F. M. ... | 64 |
| Cassinia paniculata, Behr & Muell. ... | 43 | Pomaderris biaurita, F. M. ... | 22 |
| Cassytha glabella, R. Br. ... | 68 | Prostanthera spinosa, F. M. ... | 56 |
| Celastrus Australis, Harv. & Muell. ... | 21 | Psoralea acanthocarpa, F. M. ... | 26 |
| Conospermum patens, Schlechtend. ... | 70 | Pultenæa rosea, F. M. (Suppl. Plate) ... | 13 |
| Eclipta platyglossa, F. M. ... | 39 | Rhyncharrhena quinquepartita, F. M. ... | 59 |
| Elachothamnus Cunninghamsi, Cand. ... | 34 | Rubus macropodus, Ser. ... | 15 |
| Eremophila bignoniflora, F. M. ... | 55 | Sambucus xanthocarpa, F. M. ... | 29 |
| Ethuliopsis dioica, F. M. ... | 38 | Sebæa albidiflora, F. M. ... | 61 |
| Eucalyptus globulus, Lab. (Suppl. Plate) ... | 16 | Senecio vagus, F. M. ... | 46 |
| odorata, Behr. (Suppl. Plate) ... | 17 | Solanum vescum, F. M. ... | 62 |
| Eurybia astrotricha, F. M. ... | 33 | Solenogyne bellioides, Cass. ... | 37 |
| pannosa, Hook. ... | 32 | Stackhousia pulvinaris, F. M. ... | 14 |
| Galium geminifolium, F. M. ... | 31 | Statice Australis, Spreng. ... | 65 |
| Gingidium simplicifolium, F. M. ... | 27 | Stenanthera conostepoides, F. M. ... | 52 |
| Grevillea rigidissima, F. M. ... | 71 | Stylidium soboliferum, F. M. ... | 47 |
| Halgania andromedifolia, Behr & Muell. ... | 57 | Syzygium brachynemum, F. M. (Suppl. Plate) ... | 18 |
| Haloragis odontocarpa, F. M. ... | 17 | Tetragonia implexicoma, J. Hook. ... | 13 |
| Humea ozothamnoides, F. M. ... | 44 | Thryptomene Mitchelli, F. M. ... | 23 |
| Kippistia suædifolia, F. M. ... | 35 | Tillæa purpurata, J. Hook. ... | 19 |
| Leeuwenhoekia creberrima, F. M. ... | 48 | Trigonella suavissima, Lindl. (Suppl. Plate) ... | 15 |
| Lobelia purpurascens, R. Br. ... | 50 | Trineuron nivigenum, F. M. ... | 40 |
| Logania nuda, F. M. ... | 60 | Vellea connata, F. M. ... | 49 |
| Loranthus eucalyptoides, Cand. ... | 30 | Veronica densifolia, F. M. ... | 63 |
| Lyonsia straminea, R. Br. ... | 58 | Wittsteinia vacciniacea, F. M. ... | 51 |
| Mirbelia oxylobioides, F. M. (Suppl. Plate) ... | 14 | Zehneria micrantha, F. M. ... | 18 |

P L A T E S .

TETRAGONIA IMPLEXICOMA.

J. Hook. Flor. Tasman. i. 148 ; F. M. Vegetation of the Chatham-Islands, 12 ; T. trigyna, Banks & Soland.
accord. to J. Hook. Handbook of the New Zealand Flora, 84.

PLATE XIII

Figure 1, a flower, expanded.

2, a flower in bud, opened.

3, vertical section of part of a flower.

4, anthers.

5, pollen-grains.

6, horizontal section of ovary.

7, stigmatose styles.

8, vertical section of fruit.

9, fruit seen from above.

10, horizontal section of fruit.

11, a three-seeded fruit seen from above.

12, horizontal sections of the same with and without the seeds.

13, seeds.

14, side-view of albumen and embryo in situ.

15, front-view of both.

16 & 17, crystalline epidermis.



F. Schoenfeld del. & lith.

W. Meisner direct.

Hamel & Co. imp.

Tetragonia implexicoma. J. Hook.

STACKHOUSIA PULVINARIS.

F. M. in Transact. Phil. Soc. Vict. i. 101 ; Fragm. Phyt. Austr. iii. 88.

PLATE XIV.

Figure 1, a branch with a flower-bud.

2, a branch with an expanded flower.

3, corolla, laid open.

4, flower, the corolla removed.

5, stamens.

6, side-view of pollen-grains.

7, top-view of pollen-grains.

8, pistil.

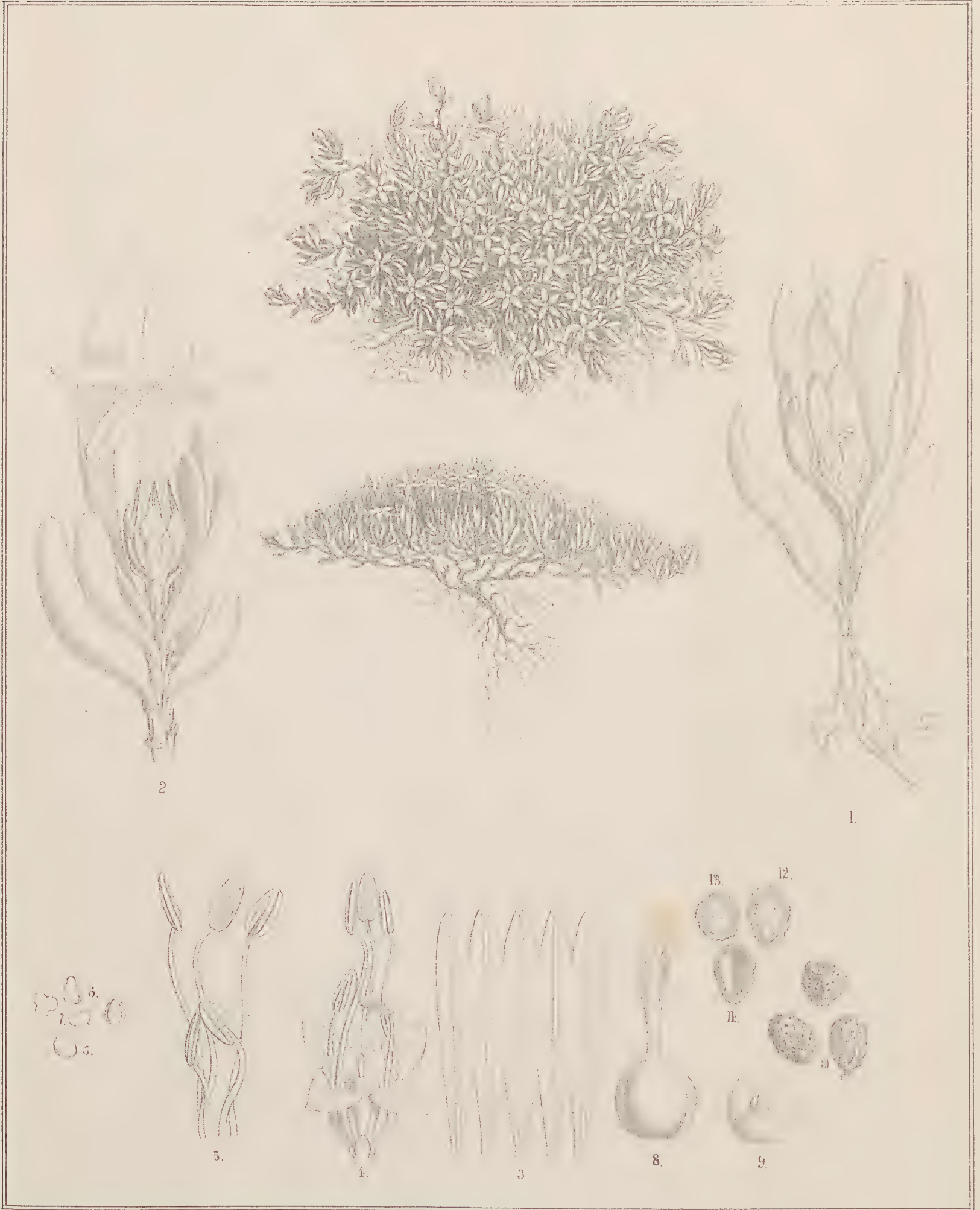
9, young fruit.

10, carpels.

11, a carpel laid open.

12, vertical section of a carpel.

13, horizontal section of a carpel.



F. Muell. direxit

F. Muell. direxit

Hamel & Co. imp.

Stackhousia pulvinaris. F.M.

RUBUS PARVIFOLIUS.

Linné, Spec. Plant. 707 ; Benth. Flor. Austral. ii. 430 ; *R. macropodus*, Seringe in Cand. Prodr. ii. 557 ;
F. M. Fragm. iv. 30.

PLATE XV.

Figure 1, flower during anthesis.

2, flower after anthesis.

3, petals.

4, stamens.

5, pollen-grains.

6, pistils and part of receptacle.

7, calyx, receptacle and two stamens.

8, ripe fruit.

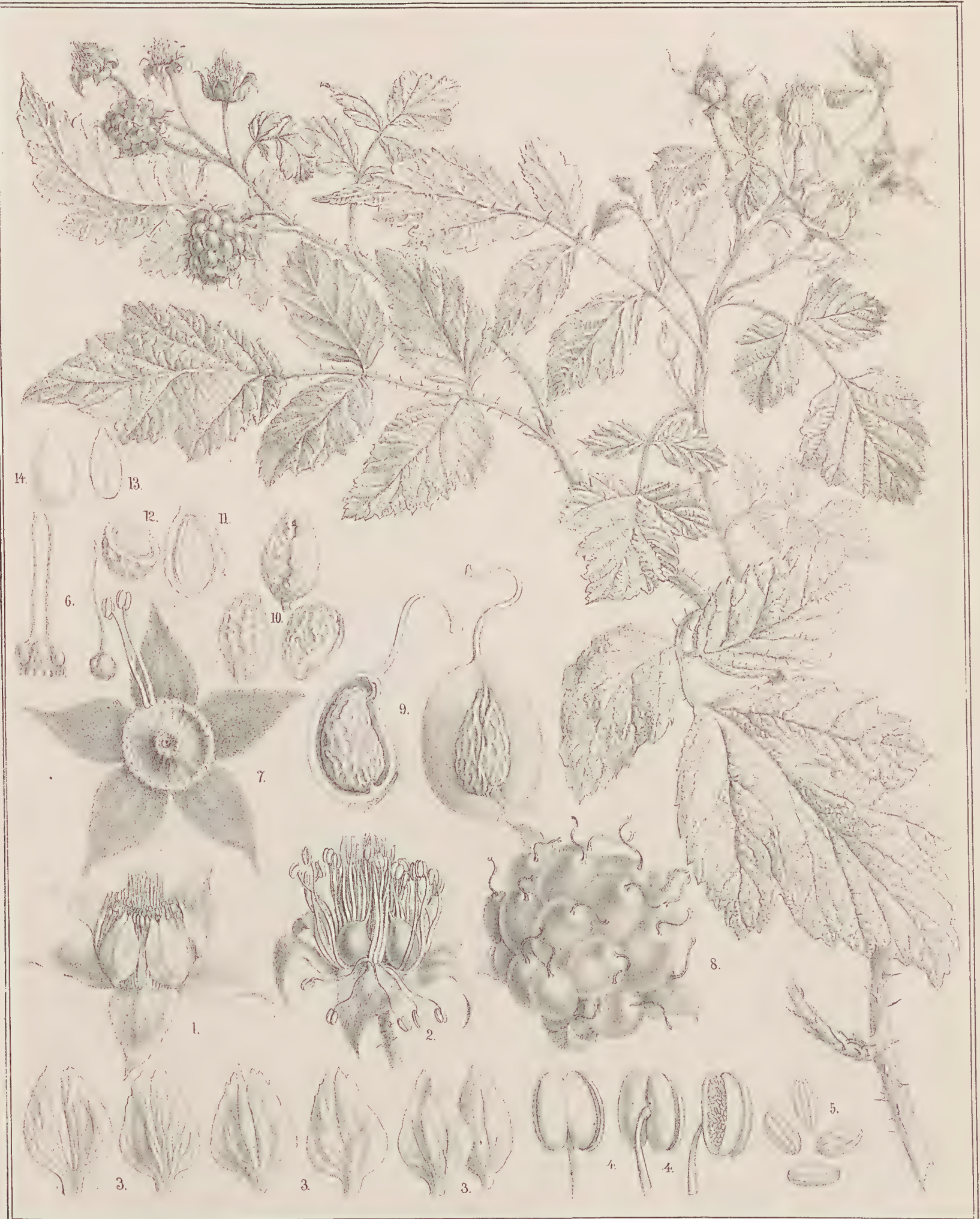
9, a succulent and a shrivelled carpel laid open.

10, carpels after removal of the sarcocarp.

11, longitudinal section of one of the same.

12, latitudinal section of one of the same.

13 & 14, embryo.



F. Schoenfeld del. & pin.

F. Mueller direct.

Hamel & Co imp.

Rubus macropodus. Ser.

BAUERA SESSILIFLORA.

F. M. in Transact. Phil. Soc. Vict. i. 41 ; in Hook. Kew Miscell. ix. 228 ; Fragn. Phyt. Austr. iv. 24.

PLATE XVI.

Figure 1, leaves.

2, diametrical line of a leaf.

3, side-view of a flower.

4, top-view of a flower.

5, part of calyx with the styles and a stamen.

6, stamens.

7, pollen-grains.

8, vertical section of ovary.

9, ovules.



HALORAGIS ODONTOCARPA.

F. M. Fragm. Phyt. Austr. i. 108 ; Benth. Flor. Austr. i. 479.

PLATE XVII.

Figure 1, side-view of a flower.

2, side-view of a fruit.

3, flower, viewed from above.

4, flower, in bud.

5, back-view of a petal.

6, front-view of a petal.

7, stamens.

8, pollen-grains.

9, transverse section of fruit.

10, longitudinal section of fruit.

11, seed.

12, section of seed, showing the embryo.



F. Schoenfeld del. & lith

F. Mueller direct

Hamel & Co imp.

Halimolobos odontocarpa. F.M.

MUCKIA MICRANTHA.

F. M. Fragm. Phyt. Austr. ii. 182 ; *Zehneria micrantha*, F. M. Fragm. Phyt. Austr. i. 182 ;
Cucumis Muelleri, Naudin in Annal. des Scienc. Natur. ser. iv. vol. ii. 84.

PLATE XVIII.

Figure 1, part of a tendril.

2, asperities of the epidermis.

3, male flower, seen from above.

4, male flower, seen from below.

5, front-view of anthers.

6, back-view of anthers.

7, pollen-grains.

8, female flower.

9, style and stigmata.

10, sections of fruit.

11, seeds.

12, 13 & 14, seeds dissected longitudinally and transversely.



F. Schoenfeld del. & lith.

I. Mueller direct.

Hamel & Co. imp.

Zehneria micrantha. F. M.

TILLÆA PURPURATA.

J. Hooker in Lond. Journ. of Bot. vi. 472; Benth. Flor. Austr. ii. 451.

PLATE XIX.

Figure 1, a plant and single branch, much enlarged.

2, a flower expanded.

3, a flower, the carpels cut away.

4, petals.

5, stamens.

6, pollen-grains.

7, carpels, burst open.

8, a carpel, opened to exhibit the position of the seeds.

9, apex of seed.

10, side-view of seed.

11, longitudinal section of a seed.

12, transverse section of seed.



Ludwig Becker, del. F. Schwenfeld, lith.

V. Mueller, direxit

De Gruy & Leigh, imp.

Tillaea purpurata. J. HOOK.

BERTYA GUMMIFERA.

Planchon in Lond. Journ. of Bot. iv. 473 ; *B. oleifolia*, Panch. l. c.

PLATE XX.

Figure 1, stellate hair of the indument.

2, involucre, surrounding a larger male flower and a smaller female flower, both in bud.

3, the same, with the flowers expanded.

4, a male flower, separated.

5, an involucre with a female flower, the male flower removed.

6, a female flower, laid open.

7, bracts, constituting the involucre, separated.

8, sepals.

9, stamens.

10, back-view of an anther.

11, front-view of a burst anther.

12, front-view of an anther before opening.

13, column of anthers.

14, pollen-grains.

15 & 16, fruits.

17, a division of a style.

18, a female flower cut lengthwise.

19, an ovary, opened to show the septa and the position of the ovules.

20, a fertile cell of the fruit.

21, transverse section of the fruit.

22, septa and valves of the fruit.

23 & 24, seeds.

25, basal extremity of the seed, exhibiting the arillus and part of the raphe.

26, longitudinal section of a seed, exhibiting albumen and embryo.



F. Schoenfeld del & lith.

F. Mueller direxit.

Hamel & Co imp.

Bertya oleaefolia. Planch.

CELASTRUS AUSTRALIS.

Harvey & Mueller in Transact. Phil. Soc. Vict. i. 41 ; Reissek in Linnæa, xxix. 265 ;

F. M. Fragm. Phyt. Austr. iii. 94 ; Benth. Flor. Austr. i. 399.

PLATE XXI.

Figure 1, part of branchlets, showing structure of epiphlæum.

- 2, a flower in bud.
- 3, side-view of an expanded flower.
- 4, top-view of an expanded flower.
- 5, a petal.
- 6, calyx laid open, to exhibit the insertion of the stamens on the disk, also the pistil.
- 7, side-view of stamens, disk and calyx.
- 8, disk, surrounded by the calyx, seen from above.
- 9, side-, back- and front-view of stamens.
- 10, pollen-grains.
- 11, side-view of capsule.
- 12, front-view of capsule.
- 13, capsule in age.
- 14-17, different forms and stages of capsule.
- 18, receptacle and placentæ.
- 19, fruit-valves.
- 20, horizontal section of ovary.
- 21, seeds.
- 22-24, sections of seeds.
- 25, embryo.
- 26, embryo, the cotyledons bent asunder and seen from their edge.



Ludwig Becker, del. & lith.

Ladd & Carr, Imp.

Celastrus Australis. *Harr. & Muell.*

POMADERRIS OBCORDATA.

Fenzl in Hueg. Enum. Plant. Nov. Holl. Austr. Occid. 23 ; P. baurita, F. M. Fragm. Phyt. Austr. iii. 73.

PLATE XXII.

Figure 1, stellate hair of the indument.

2, a branchlet, but little magnified.

3, bracts.

4, side-view of a flower.

5, top-view of a flower.

6, longitudinal section of part of a flower.

7, sepals.

8, stamens.

9, pollen-grains.

10, fruit, closed.

11, fruit, partly opened.

12, fruit, entirely opened.

13, receptacle, with the outer part corresponding to one of the carpels.

14, transverse section of fruit.

15, two separate carpels, one partly forced open.

16, section of endocarp.

17, a carpel viewed from the base.

18, a carpel viewed laterally.

19, seeds.

20, 21 & 22, sections of carpels.



F. Schoenfeld del. & lith. F. Mueller direct. Hamel & Co imp

Pomaderris biaurita. F.M.

THRYPTOMENE MITCHELLIANA.

F. M. Fragm. Phyt. Austr. i. 11.

PLATE XXIII.

Figure 1, part of branchlets.

2, side-view of a flower.

3, a flower, with separated bracteoles.

4, top-view of a flower.

5, sepals.

6, petals.

7, stamens.

8, pollen-grains.

9, style.

10, side-view of fruit.

11, longitudinal section of flower and fruit.

12, transverse section of fruit.

NOTE.—The name "Thryptomen" in the plate should be "Thryptomene."



F. Schoenfeld del & lith.

F. Mueller direxit

Hamel & Co. imp

Thryptomen mitchelliana. F.M.

ACACIA PRAVISSIMA.

F. M. Fragm. Phyt. Austr. i. 5 ; in Proceed. of the Linn. Soc. iii. 118 ; Plants Indigenous to Vict. ii. 4 ;
Benth. Flor. Austr. ii. 375.

PLATE XXIV.

Figure 1, part of a branchlet.

2, part of a spike.

3, bracteoles.

4, flowers.

5, petals.

6, stamens.

7, pollen-grains.

8, style.

9, part of pod with a seed.

10, seed.

11, 12 & 13, sections of seed.



F. Schoenfeld del. & lith.

F. Mueller auct.

Hamel & Co. imp.

Acacia pravissima. F.M.

CASSIA ARTEMISIOIDES.

Gaudich. in Cand. Prodr. ii. 495, var. platypoda, F. M. Plants Indigenous to Vict. i. 38 ; C. platypoda, R. Br. in Sturt's Central Aust. ii. Append. 77 ; C. eremophila, A. Cunn. in Vogel's Synops. Cass. 47, var. platypoda, Benth. Flor. Austr. ii. 288.

PLATE XXV.

Figure 1, a flower- and fruit-bearing branchlet.

2, sepals.

3, petals.

4, stamens.

5, pollen-grains.

6, pistil.

7, part of a fruit-valve with a ripe and imperfect seed.

8, seeds.

9, section of a seed.

10, embryo.



F. Schoenfeld del. lith.

C. Schimper del. lith.

Bot. Anst. Wien

Cassia platypoda. Br.

GLYCYRRHIZA PSORALOIDES.

Benth. Flor. Austral. ii. 225; Indigofera acanthocarpa, Lindl. in Mitch. Three Exped. ii. 17; Clidanthera psoraloides, R. Br. Append. to Sturt's Exped. 11; Psoralea acanthocarpa, F. M. Fragm. Phyt. Austr. iii. 45.

PLATE XXVI.

Figure 1, flowers, bracteoles and part of a rachis.

2, upper petal.

3, the same, flattened.

4, lateral petals.

5, lower petals.

6, stamens and pistil.

7, fascicle of stamens, flattened.

8, anthers.

9, pollen-grains.

10, pistil, with the free tenth stamen.

11, pod.

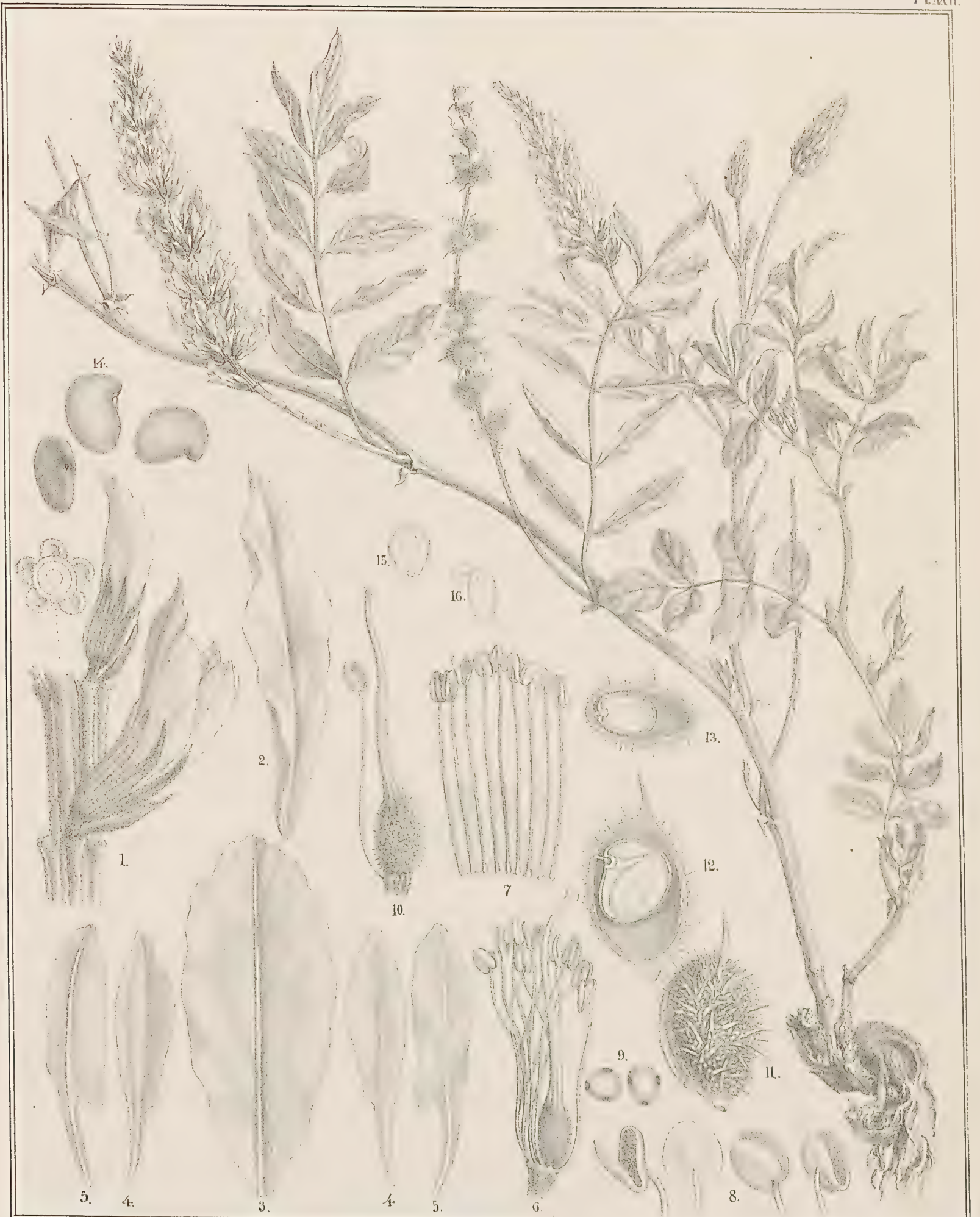
12, longitudinal section of pod.

13, transverse section of pod.

14, seeds.

15, transverse section of a seed.

16, embryo.



E. Schoenfeld del. & lith.

F. Mueller direxit.

Hamel & Co. imp.

Psoralea acanthocarpa. FM.

GINGIDIUM SIMPLICIFOLIUM.

F. M. in Transact. Phil. Soc. of Vict. i. 104, and in Hook. Kew Miscell. viii. 72.

PLATE XXVII.

Figure 1, part of a leaf.

2, a flower, unexpanded.

3, a flower, nearly expanded.

4, petals.

5, side-view of a fertile flower.

6, a barren flower.

7, calyx of a barren flower.

8, anthers.

9, pollen-grains.

10, styles and a stamen.

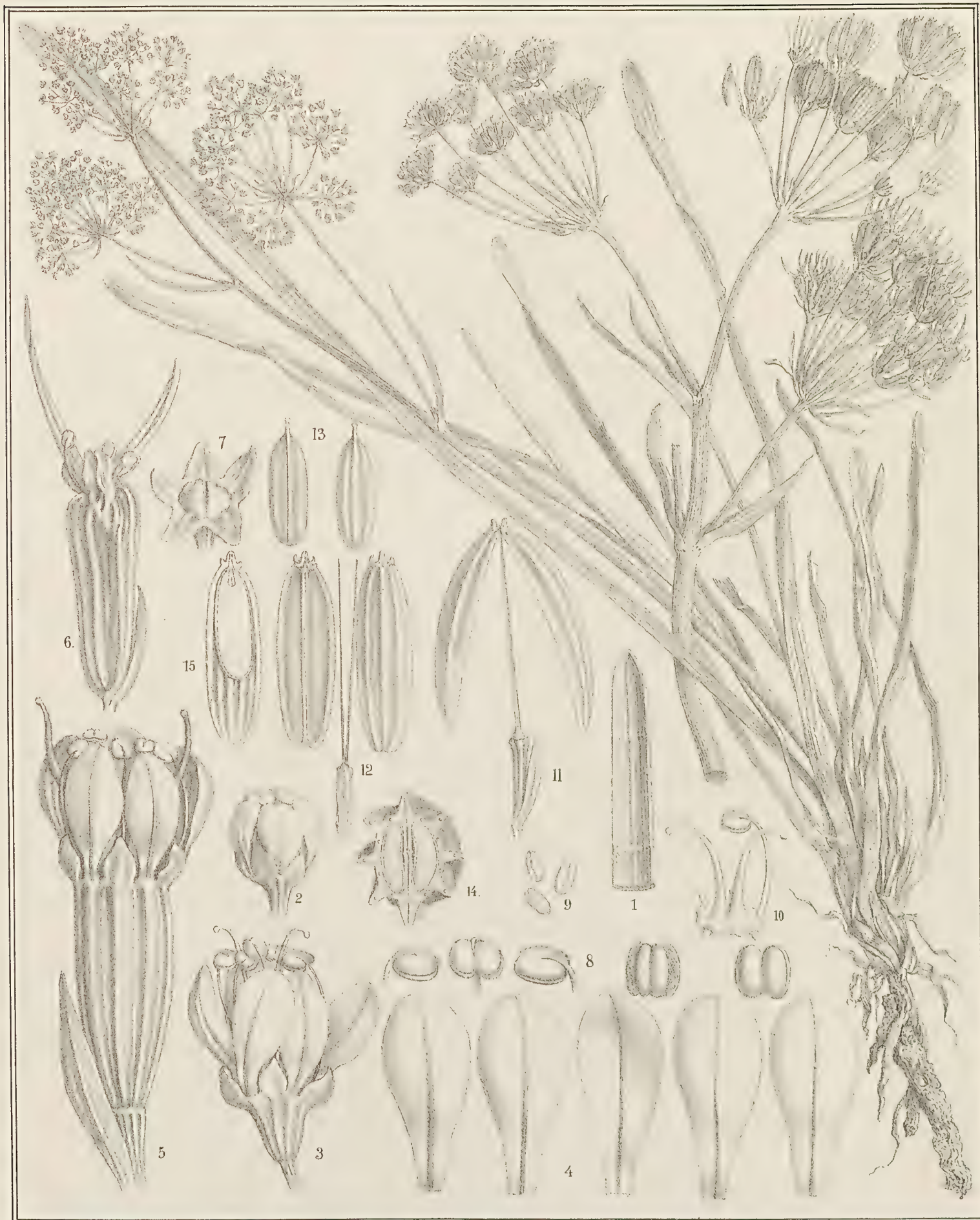
11, ripe fruit, seceding from the carpophor.

12, mericarps and carpophor, separated.

13, back- and front-view of seeds.

14, transverse section of a whole fruit.

15, longitudinal section of a mericarp.



F. Schoenfeld del. & lith.

F. Mueller direct.

Hamel & Co. imp.

Gingidium simplicifolium. F.M.

PANAX DENDROIDES.

F. M. in Transact. Philos. Soc. Vict. i. 43 ; in Hook. Kew Miscell. viii. 72 ; *P. angustifolius*, F. M. l. c. ;
P. sambucifolius, Sieber in Cand. Prodr. iv. 255, var. sec. F. M. Fragm. Phyt. Austr. ii. 107.

PLATE XXVIII

Figure 1, flowers, unexpanded.

2, side-view of an unexpanded flower.

3, top-view of an expanded flower.

4, a monstrous flower.

5, petals.

6, stamens.

7, pollen-grains.

8, epigynous disk.

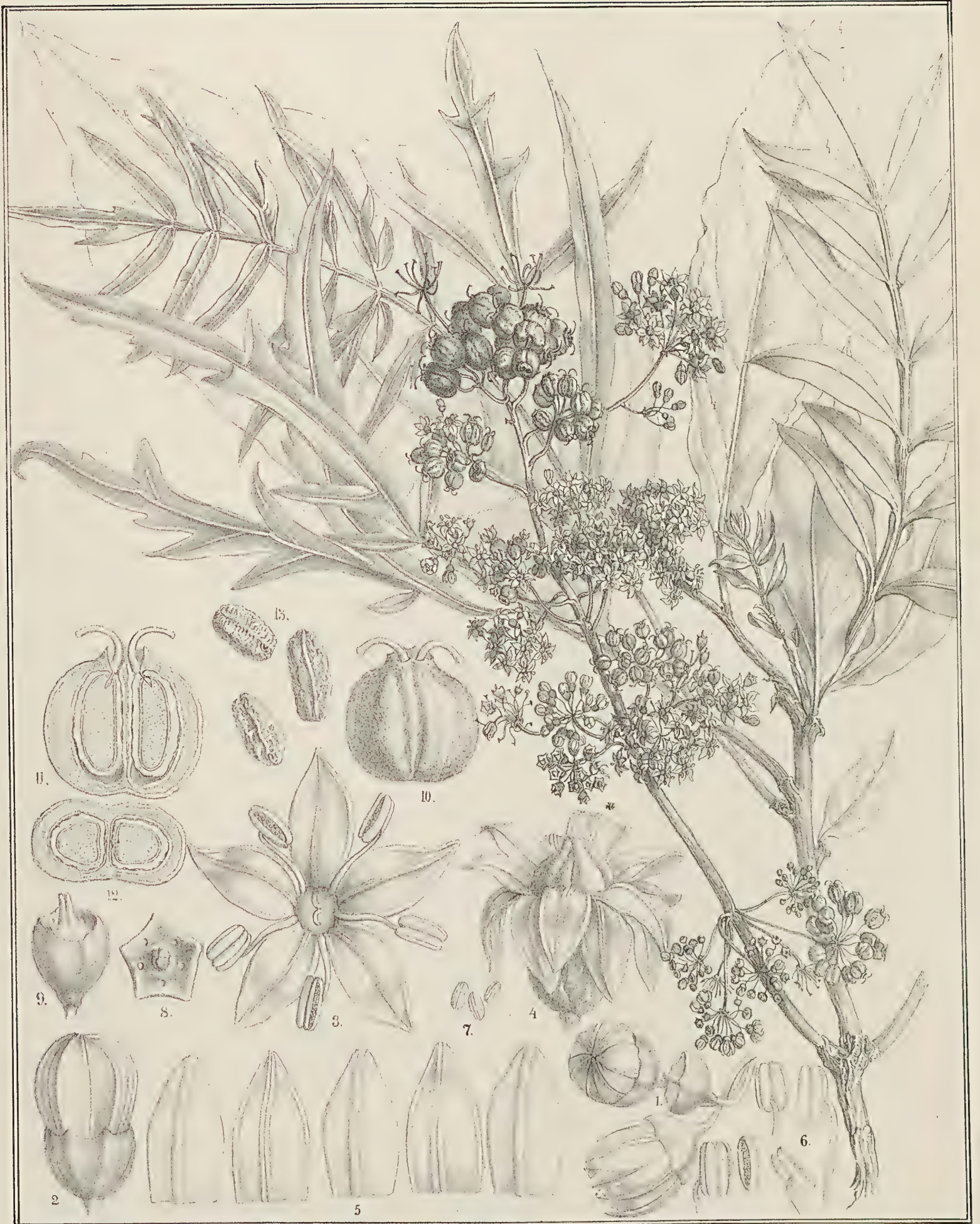
9, young fruit.

10, ripe fruit.

11, longitudinal section of a fruit.

12, latitudinal section of a fruit.

13, seeds.

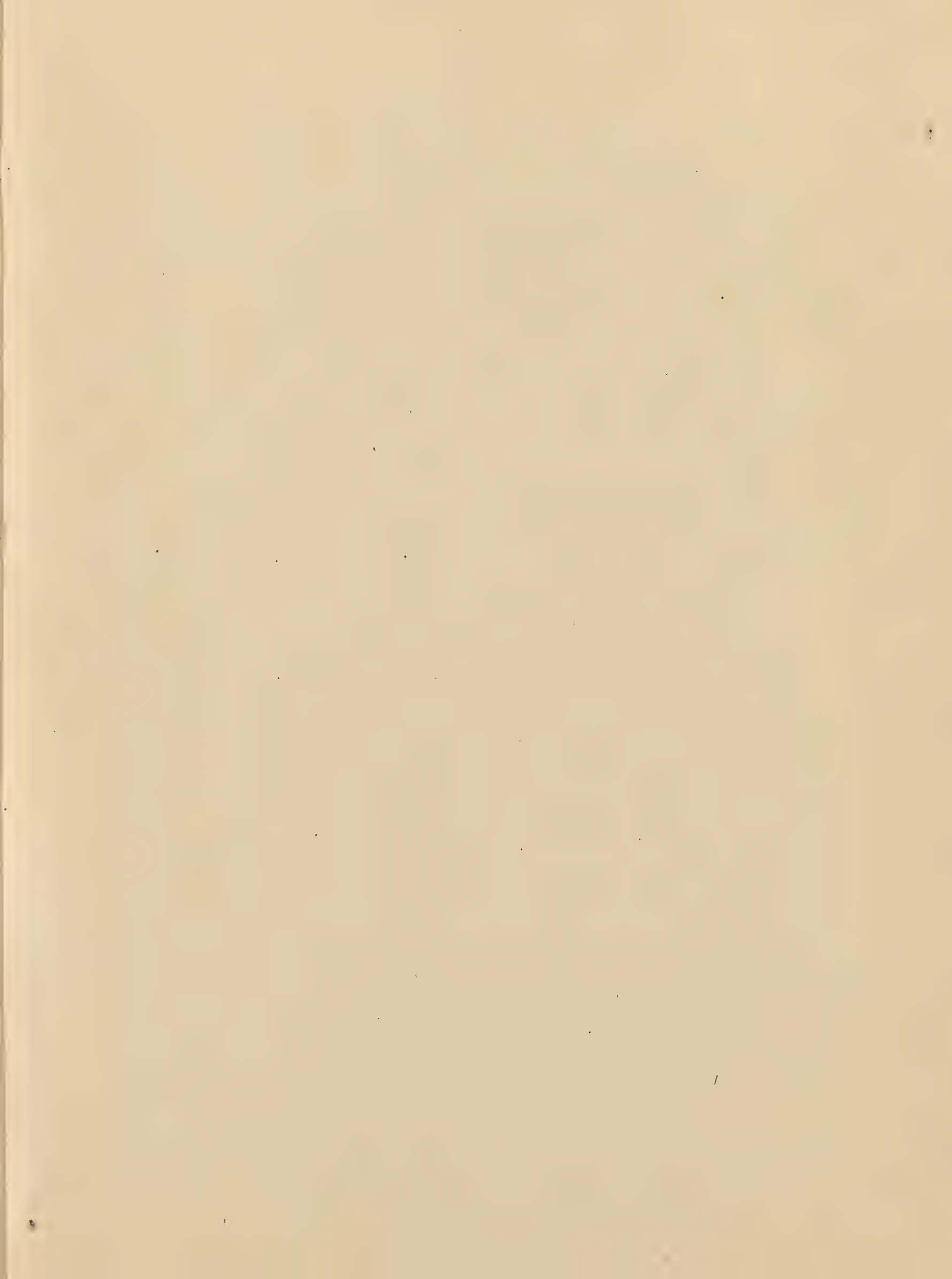


F. Schoenfeld del. & lith.

F. Mueller dir.

Hamel & Co. imp.

Panax dendroides. F. M.



SAMBUCUS XANTHOCARPA.

F. M. in Transact. Phil. Soc. of Vict. i. 42 ; in Hook. Kew Miscell. viii. 145.

PLATE XXIX.

Figure 1, pedicel and bracteoles.

2, side-view of a flower.

3 & 4, flowers before expansion.

5 & 6, top-views of expanded flowers.

7, stamens.

8, pollen-grains.

9, flower, the petals and two of the stamens removed.

10, longitudinal section of ovary.

11, side-view of a ripe fruit.

12, front-view of a ripe fruit.

13, longitudinal section of fruit, the embryo of one of the seeds laid bare.

14, transverse section of fruit.

15, column of fruit.

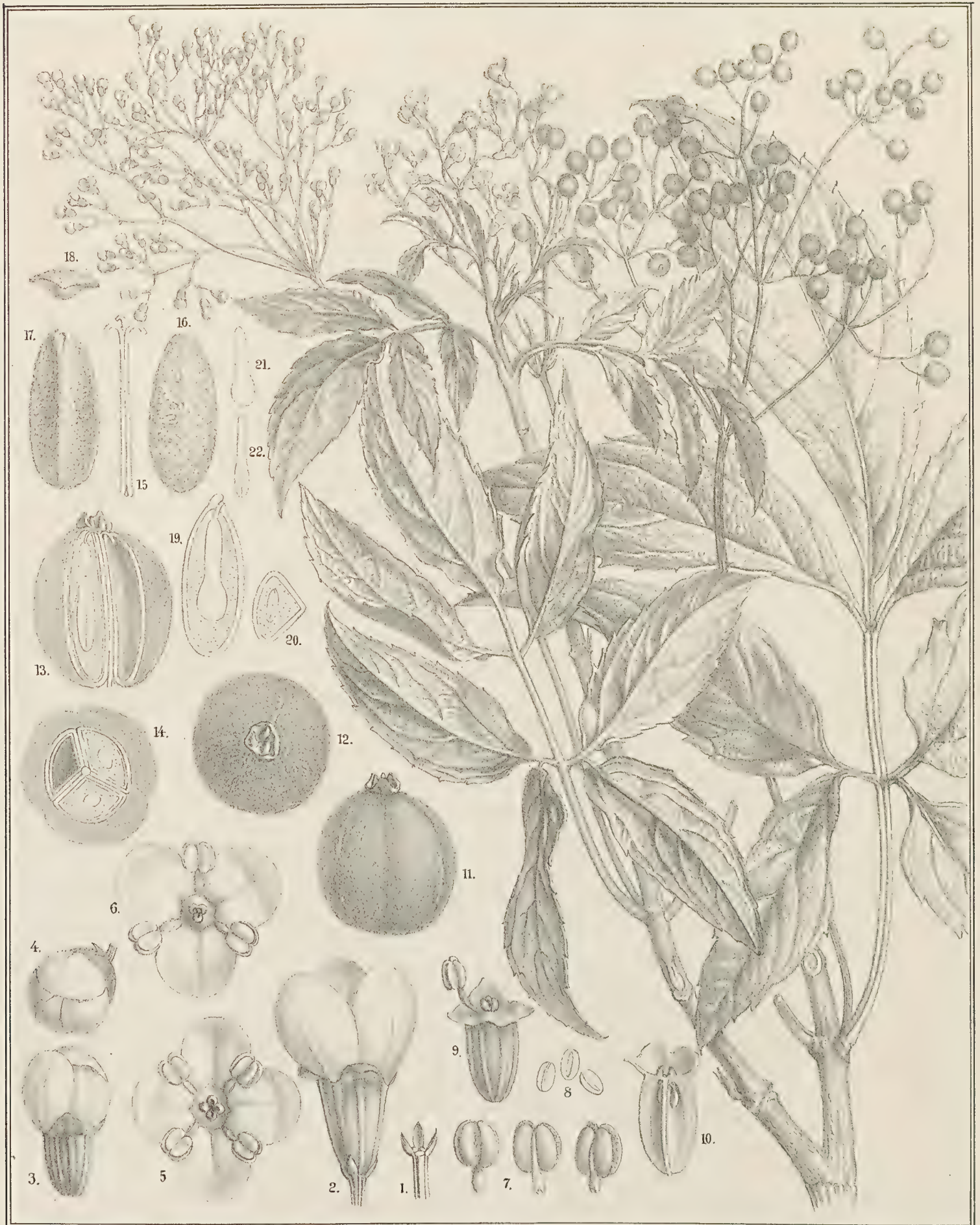
16 & 17, back- and front-view of a seed.

18, seed, seen from its apex.

19, longitudinal section of seed, showing the face of the embryo.

20, transverse section of a seed.

21 & 22, side- and back-view of an embryo.



F. Schoenfeld del. & lith.

F. Mueller dir.

Hamel & Co. imp.

Sambucus xanthocarpa .F.M.

LORANTHUS CELASTROIDES.

Sieber in Schult. Syst. Veg. vii. 163 ; Asa Gray, Unit. Stat. Explor. Exped. Botan. 740, t. 100 ;
F. M. Essay on the Plants of the Burdekin Expedition, 13 ; *L. eucalyptoides*, Cand. Prodr. iv. 318.

PLATE XXX.

Figure 1, a flower in the early stage of expansion.

2, a flower fully expanded.

3-7, petals and stamens.

8, stamens.

9, pollen-grains.

10, pistil.

11, portion of style, exhibiting its pentagonous form.

12, side-view of fruit.

13, fruit, the disk removed.

14, disk, separated.

15, top-view of fruit.

16, transverse section of fruit.

17, longitudinal section of fruit.

18, longitudinal section of seed.

19, side-view of seed.



F. Schönfeld, del & lith.

F. Mueller direct

De Gruchy & Leigh, imp

Loranthus eucalyptoides Cand.

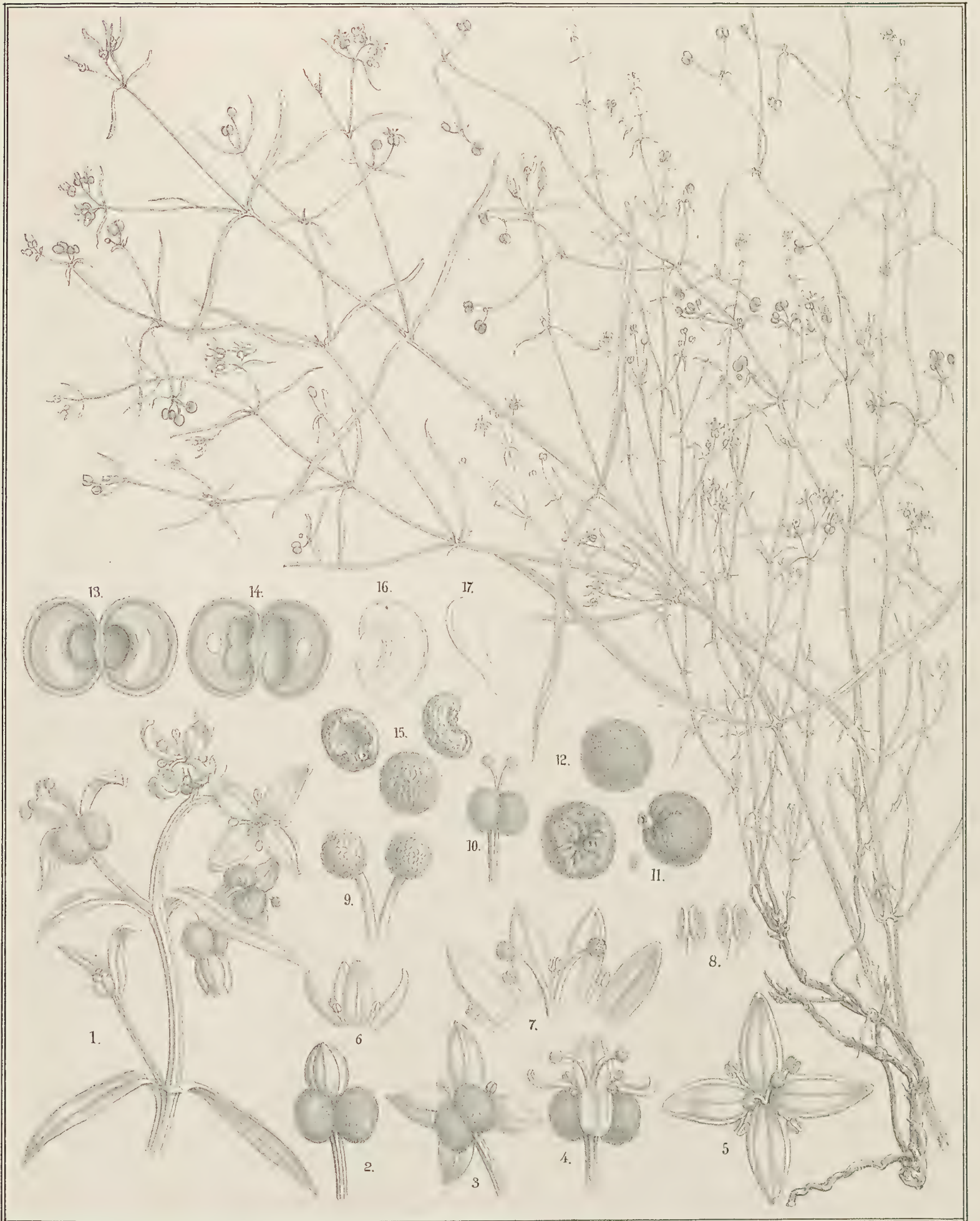
GALIUM GEMINIFOLIUM.

F. M. in Transact. Vict. Instit. i. 127; in Hook. Kew Garden Miscell. viii. 146;
Miq. in Nederl. Kruidk. Archiv.

PLATE XXXI.

Figure 1, flowering branchlet.

- 2, side-view of an unexpanded flower.
- 3, back-view of an expanded flower.
- 4, side-view of an expanded flower.
- 5, top-view of an expanded flower.
- 6, corolla and stamens.
- 7, petals, stamens and styles.
- 8, anthers.
- 9, styles, with stigmas.
- 10, young fruit with styles.
- 11 & 12, separate ripe carpels.
- 13 & 14, sections of fruit.
- 15, back-, front- and side-view of a seed.
- 16, section of a seed.
- 17, embryo.



F. Schoenfeld del. & lith.

F. Mueller direct.

Hamel & Co imp.

Galium geminifolium. F.M.

EURYBIA PANNOSA.

Olearia pannosa, Hook. Icon. Plant. 862 ; Lindl. & Paxt. Flower Garden, 1852, n. 27 ;
Glean. 41, fig. 252 ; *Steetzia pannosa*, Sond. in Linnæa, 1852, 451.

PLATE XXXII.

Figure 1, a capitulum laid open.

2, a disk-flower and fruit.

3, a disk-flower, separated.

4, the same, laid open.

5, column of stamens, flattened.

6, pollen-grains.

7, style of a disk-flower.

8, a ray-flower and fruit.

9, a ray-flower, separated.

10, style of a ray-flower.

11, a pappus-bristle.

12, alveoles of the receptacle.

13, achenium.

14, achenium, cut longitudinally.



F. Schönfeld, del. & lith.

F. Mueller, direct.

J. M. Ferguson, imp.

Eurybia pannosa, HOOKER.

EURYBIA ASTROTRICHA.

F. M. Fragm. Phyt. Austr. i. 111; Archer in Proceed. of the Linn. Soc. v. 22.

PLATE XXXIII.

Figure 1, leaves.

- 2, scales of involucre.
- 3, flower-head, seen from above.
- 4, a disk-flower and fruit.
- 5, a disk-flower, separated.
- 6, a disk-flower, laid open.
- 7, column of stamens, flattened.
- 8, pollen-grains.
- 9, style of a disk-flower.
- 10, front-view of a ray-flower.
- 11, back-view of a ray-flower.
- 12, style of a ray-flower.
- 13, involucre and receptacle, and detached alveoles of the latter.
- 14, ripe fruit.
- 15, bristles of pappus.
- 16, side-view of an achenium.
- 17, longitudinal section of an achenium.
- 18, latitudinal section of an achenium.
- 19, side-view of embryo.
- 20, back-view of embryo.



F. Schönfeld, del & lith

F. Mueller, direxit

De Gruchy & Leigh, imp.

Eurybia astrotricha. F. M.

ELACHOTHAMNUS CUNNINGHAMI.

Candolle, Prodröm. v. 398 ; Therogeron tenuifolius, Sond. in Linnæa, 1852, 467 ;
Erigeron Cunninghami, F. M. collect.

PLATE XXXIV.

Figure 1, leaves and part of a branchlet.

2, vertical section of a flower-head.

3, involucre and receptacle.

4, scales of involucre.

5, a barren disk-flower.

6, corolla of a disk-flower, laid open.

7, the same with the style.

8, column of stamens, flattened.

9, pollen-grains.

10, an inner bristle of pappus.

11, part of outer pappus-series.

12, a ray-flower and fruit.

13, a ray-flower, separate.

14, a fruit and its pappus.

15, a separate fertile achenium.



Elachothamnus Cunninghami, Cand.

KIPPISTIA SUÆDIFOLIA.

F. M. Report on the Plants of Babbage's Expedition, 9; Minuria Kippistiana, F. M. collect.

PLATE XXXV.

Figure 1, part of a branchlet with leaves.

- 2, side-view of a flower-head.
- 3, involucre and receptacle with most of the flowers removed.
- 4, alveoles of the receptacle.
- 5, scales of involucre.
- 6, a disk-flower, unexpanded.
- 7, a disk-flower, expanded with fruit.
- 8, a disk-flower, laid open.
- 9, column of stamens, flattened out.
- 10, pollen-grains.
- 11, a ray-flower with fruit.
- 12, a ray-flower, the pappus removed.
- 13, part of the pappus of a ray-flower.
- 14, style of a ray-flower.
- 15, ripe fruit, with its pappus.
- 16, ripe fruit, isolated.



F. Schönfeld. del. & lith.

F. Mueller. direxit

De Gruchy & Leigh. imp.

Kippistia suaedifolia. *FM*

CALOTIS CYMBACANTHA.

F. M. in Linnæa, 1852, 400.

PLATE XXXVI.

Figure 1, flower-head, seen from above.

2, side-view of a disk-flower.

3, a disk-flower, laid open.

4, column of stamens, flattened out.

5, pollen-grains.

6, style of a disk-flower.

7, style of a ray-flower.

8, ray-flower and fruit, seen in front.

9, back-view of the same.

10, involucre and receptacle, with most of the flowers removed.

11, achenium.

12, vertical section of the same.

13, side-view of seed.

14, top-view of seed.

15, embryo.



F. Schönfeld del & lith.

F. Mueller, direxit.

De Gruchy & Leigh, imp.

Calotis cymbacantha. F. M.

SOLENOGYNE BELLIOIDES.

Cassini, Diction. Scienc. Natur. lvi. 175 ; Emphysopus Gunnii, J. Hook. in Lond. Journ. of Bot. vi. 113 ;
Lagenophora Emphysopus, J. Hook. Fl. Tasm. i. 189.

PLATE XXXVII.

Figure 1, unexpanded flower-head.

2, side-view of a flower-head, part of the flowers removed.

3, receptacle and involucre.

4, side-view of a disk-flower.

5, a disk-flower opened lengthwise.

6, column of stamens, flattened.

7, pollen-grains.

8, style of a disk-flower.

9, a ray-flower.

10, style of a ray-flower.

11, an achenium.

12, longitudinal section of the same.

13, transverse section of the same.

14, side-view of embryo.

15, longitudinal section of embryo.

16, transverse section of embryo.



F. Schönfeld del. & lith.

F. Mueller, direxit.

De Gruchy & Leigh, imp.

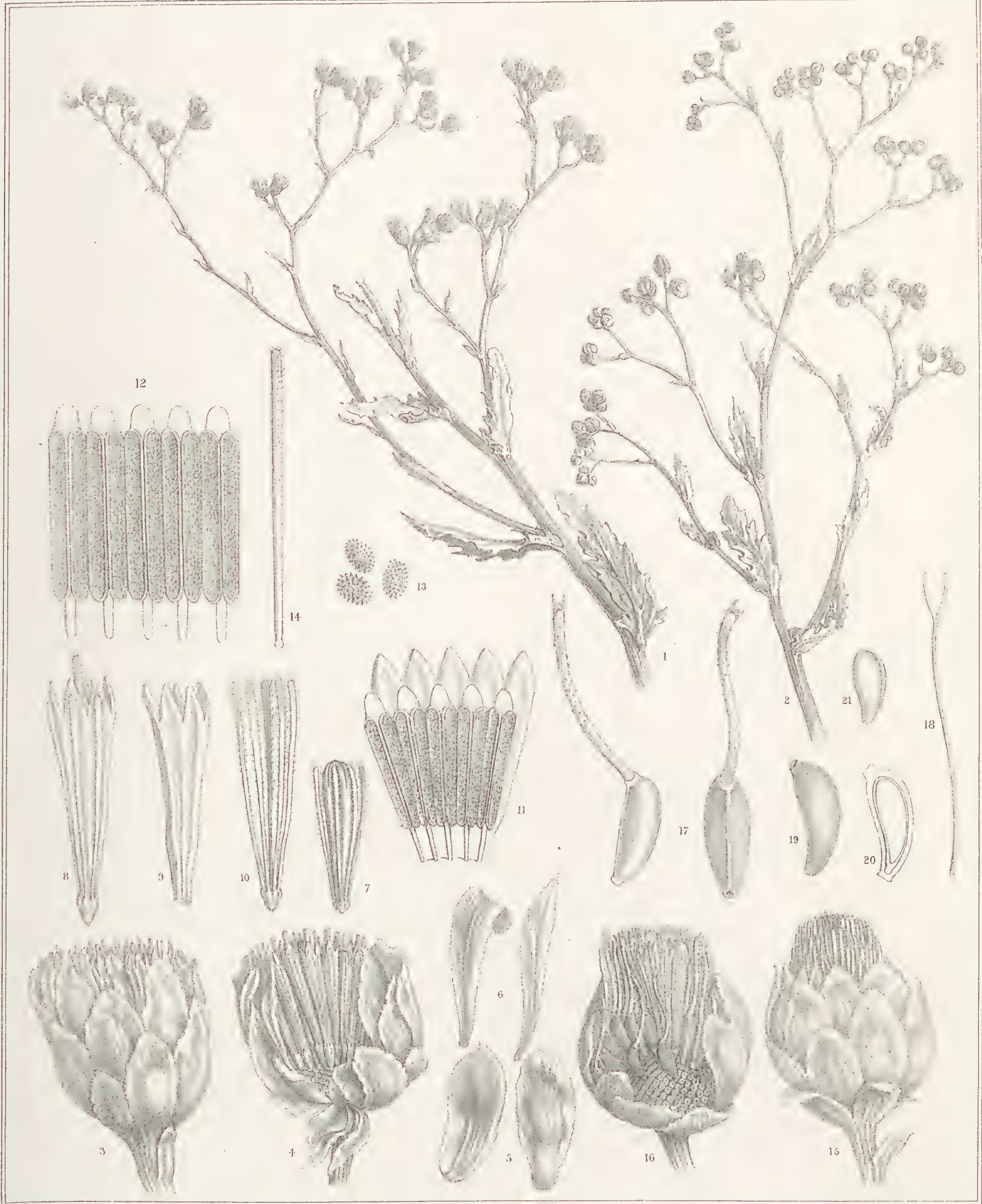
Solenogyne bellioides, Cass.

ETHULIOPSIS DIOICA.

F. M. Fragm. Phyt. Austr. ii. 155 ; *Ethulia Cunninghami*, Hook. in Mitch. Tropical Austral. 62 ;
Epaltes Australis, Cand. Prodr. v. 461 ; Sond. in Linnæa, 1852, 482.

PLATE XXXVIII.

- Figure 1, branch of a male plant, natural size.
2, branch of a female plant, natural size.
3, side-view of a male capitulum.
4, male capitulum, laid open.
5, inner scales of involucre.
6, outer scales of involucre.
7, a male flower, unexpanded.
8, side-view of a male flower.
9, corolla of a male flower.
10, pappus of a male flower.
11, a male flower, laid open.
12, column of stamens, flattened.
13, pollen-grains.
14, style of a male flower.
15, side-view of a female capitulum.
16, a female capitulum, laid open, showing also a few central male flowers.
17, female flowers and their fruits.
18, style of a female flower.
19, an achenium.
20, longitudinal section of an achenium.
21, embryo.



F. Schönfeld del. & lith.

F. Mueller, direxit.

De Gruy & Leigh imp.

Ethuliopsis dioica, F.M.

WOLLASTONIA ECLIPTOIDES.

Eclipta platyglossa, F. M. Fragm. Phyt. Austr. ii. 135; *Wedelia ecliptoides*, F. M. collect.

PLATE XXXIX.

Figure 1, single hairs of the epidermis.

2, side-view of a flower-head.

3, a flower-head, opened.

4, side-view of a disk-flower.

5, a disk-flower, laid open.

6, column of stamens, flattened out.

7, pollen-grains.

8, style.

9, front-view of a ray-flower.

10, back-view of a ray-flower.

11, style of a ray-flower.

12, a young fruit, with a palea.

13, side-view of a matured achenium.

14, top-view of a matured achenium.

15, transverse section of a ripe achenium.

16, longitudinal section of the same.

17, side-view of embryo.

18, transversal section of cotyledons.



F. Schönfeld del & lith.

F. Mueller direxit

De Gruchy & Lege, imp

Eclipta platyglossa. F.M.

ABROTANELLA NIVIGENA.

Trineuron nivigenum, F. M. in Transact. Phil. Soc. Vict. i. 105 ; in Hook. Kew Miscell. viii. 149.

PLATE XL.

Figure 1, a leaf.

2, an unexpanded capitulum, surrounded by leaves.

3, side-view of a capitulum.

4, capitulum, showing the receptacle, involucre and a few flowers.

5, scales of involucre.

6, a bisexual flower and fruit.

7, a separated bisexual flower.

8, column of stamens, flattened.

9, style of bisexual flower.

10, a female flower.

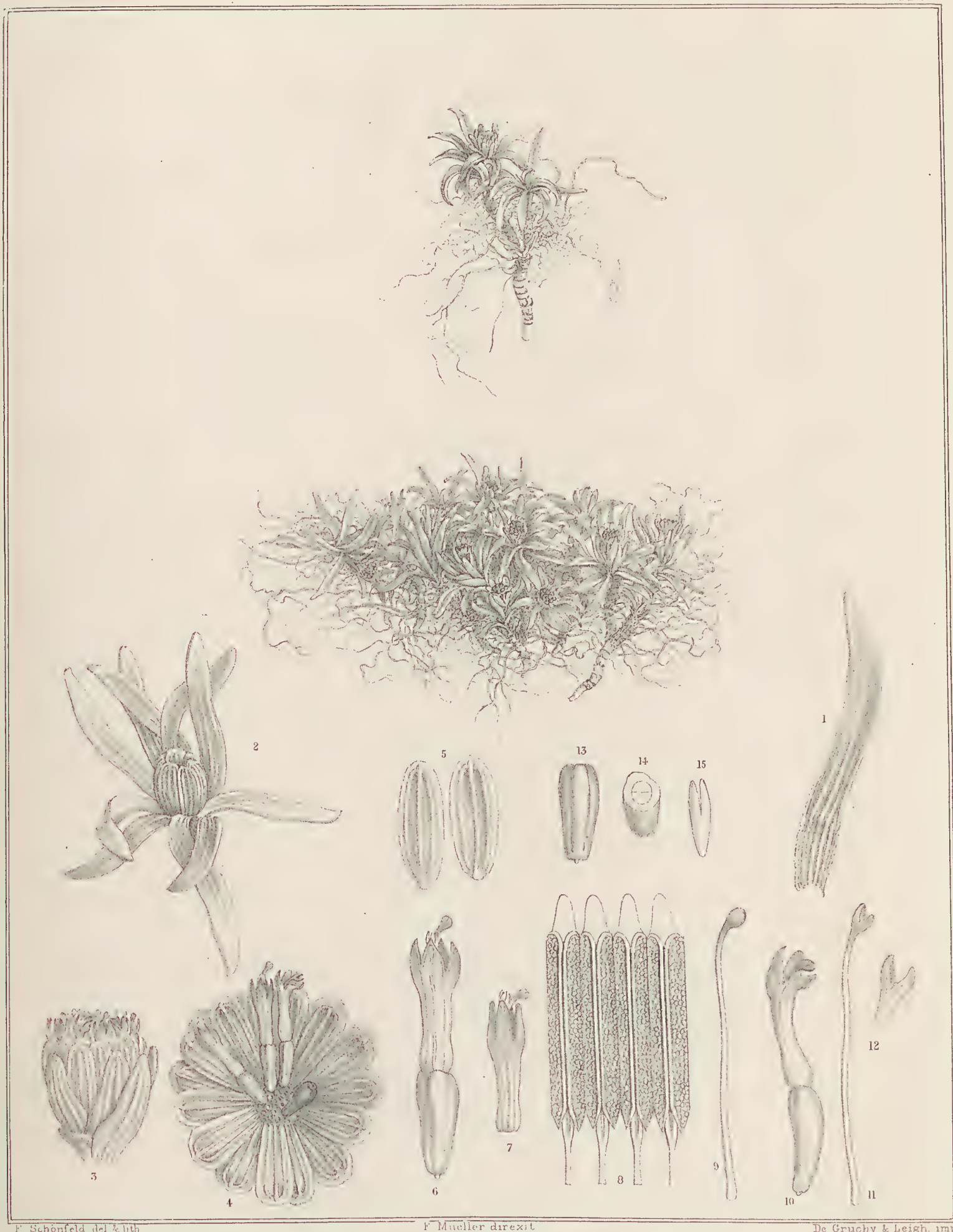
11, style of female flower.

12, stigma of the same.

13, side-view of a mature achenium.

14, transverse section of an achenium.

15, side-view of embryo.



Trineuron nivigenum, F.M.

MYRIOGYNE CUNNINGHAMI.

Candolle, Prodr. vi. 139.

PLATE XLI.

Figure 1, woolly indument.

2, leaves.

3, flower-head, seen from above.

4, flower-head, about half of the flowers removed.

5, a bisexual flower.

6, longitudinal section of the same.

7, anthers.

8, pollen-grains.

9, style of a bisexual flower.

10, female flower and its fruit.

11, longitudinal section of the same.

12, style of the same.

13, transverse section of an achenium.

14, side-view of seed.

15, embryo.



F. Schönfeld del. & lith

F. Mueller direxit.

De Gruchy & Leigh, imp

Myriogyne Cunninghami, Cand.

POLYCALYMMMA STUARTII.

Sond. & Muell. in Linnæa, 1852, 494.

PLATE XLII.

Figure 1, special involucre and a palea.

2, scales of general involucre.

3, a flower and fruit.

4, a flower, detached.

5, longitudinal section of a flower.

6, column of stamens, flattened out.

7, pollen-grains.

8, style.

9, longitudinal section of a fruit.

10, a pappus-bristle.

11, transverse section of a fruit.

12, vertical view of a fruit.



F. Schonfeld del. & lith.

F. Mueller direxit.

. De Gruchy & Leigh, imp.

Polycalymma Stuartii. *SOND. & MUELL.*

CASSINIA ARCUATA.

R. Br. in Transact. Linn. Soc. xii. 128 ; C. paniculata, Behr & Muell. in Linnæa, 1852, 496.

PLATE XLIII.

Figure 1, part of a branchlet with some leaves.

2, unexpanded capitula.

3, an expanded capitulum.

4, a capitulum with its scales detached.

5, a flower and fruit.

6, a separate flower.

7, column of stamens detached.

8, pollen-grains.

9, style.

10, side-view of a fruit.

11, side-view of an achenium.

12, longitudinal section of an achenium.

13, embryo.



F. Schönfeld, del. & lith.

F. Mueller direxit

De Gruchy & Leigh imp

Cassinia paniculata, BEHR. & MUELL.

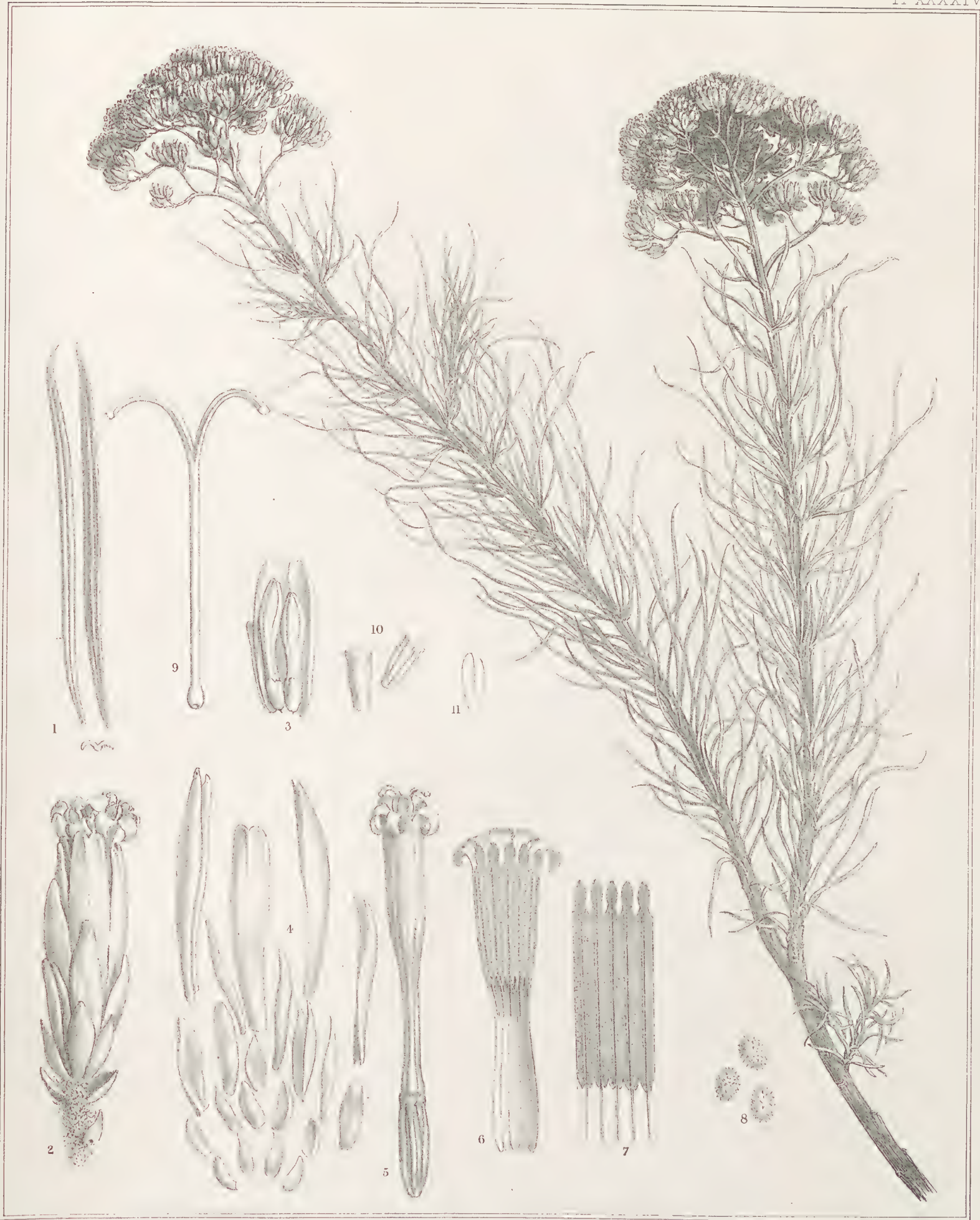
HUMEA OZOTHAMNOIDES.

F. M. Fragin. Phyt. Austr. i. 17 ; in Hook. Kew Miscell. vii. 150 ; *Hæckeria ozothamnoides*, F. M. in
Transact. Phil. Soc. Vict. i. 45.

PLATE XLIV.

Figure 1, leaves.

- 2, a capitulum developed.
- 3, a young capitulum laid open.
- 4, scales of involucre.
- 5, a flower and fruit.
- 6, a flower laid open.
- 7, column of stamens, flattened out.
- 8, pollen-grains.
- 9, style.
- 10, achenia.
- 11, embryo.



P. Schönfeld, del. & lith

F. Mueller, direxit.

De Gruchy & Leigh, imp.

Humea ozothamnoides. F.M.

ANTENNARIA NUBIGENA.

F. M. in Transact. Phil. Soc. Vict. i. 45 ; in Hook. Kew Miscell. viii. 161 ;
Gnaphalium Catipes, Cand. Prodr. vi. 236 ; Raoulia Catipes, J. Hook. Flor. Tasm. i. 206 ;
R. Tasmanica, J. Hook. l. c. tab. lviii. A.

PLATE XLV.

Figure 1, leaves.

- 2, scales of involucre.
- 3, a fertile capitulum.
- 4, a barren capitulum.
- 5, a bisexual flower and fruit.
- 6, a fertile flower, detached.
- 7, the same opened lengthwise.
- 8, column of stamens, flattened out.
- 9, pollen-grains.
- 10, a style.
- 11, a pappus-bristle.
- 12, female flower and fruit.
- 13, female flower detached.
- 14, its style.
- 15, a bristle of the pappus of the female flower.
- 16, an achenium.
- 17, longitudinal section of an achenium.
- 18, transverse section of an achenium.
- 19, embryo.



F. Schönfeld, del. & lith.

F. Mueller, direxit.

J. M. Ferguson, imp.

Antennaria nubigena, F. M.

SENECIO VAGUS.

F. M. in Transact. Phil. Soc. Vict. i. 46 ; in Hook. Kew Miscell. viii. 162.

PLATE XLVI.

Figure 1, front-view of a capitulum.

- 2, a flower in bud.
- 3, a developed disk-flower and young fruit.
- 4, front-view of a ray-flower.
- 5, back-view of a ray-flower.
- 6, the same with its pappus.
- 7, longitudinal section of a disk-flower.
- 8, column of stamens, flattened.
- 9, pollen-grains.
- 10, style.
- 11, involucre and receptacle.
- 12, alveoles of receptacle.
- 13 & 14, back- and front-view of an involucre-scale.
- 15, achenium and pappus.
- 16, a single pappus-bristle.
- 17, side-view of ripe achenia.
- 18, achenium, seen from the base.
- 19, achenium, seen from the summit.
- 20, achenium, dissected lengthwise.
- 21, achenium, dissected transversely.
- 22, seed.
- 23, seed, longitudinally dissected.
- 24, embryo.



F. Schönfeld, del. & lith.

F. Mueller, direxit.

De Gruchy & Leigh, imp.

Senecio vagus. F. M.

STYLIDIUM SOBOLIFERUM.

F. M. in Transact. Vict. Inst. i. 131 ; in Hook. Kew Miscell. viii. 162.

PLATE XLVII.

Figure 1, leaves.

2, glandular indument.

3, a flowering branchlet.

4, flower in bud.

5, flower expanded.

6 & 7, labellum.

8, anthers, unexpanded.

9, anthers opened, viewed in front.

10, back-view of anthers.

11, pollen-grains.

12, side-view of capsule.

13, capsule, laid open.

14, septum with seeds.

15, septum with placenta.

16, seeds.



F. Schönfeld, del. & lith.

F. Mueller, direxit.

De Gruchy & Leigh, imp.

Stylidium soboliferum, F.M.

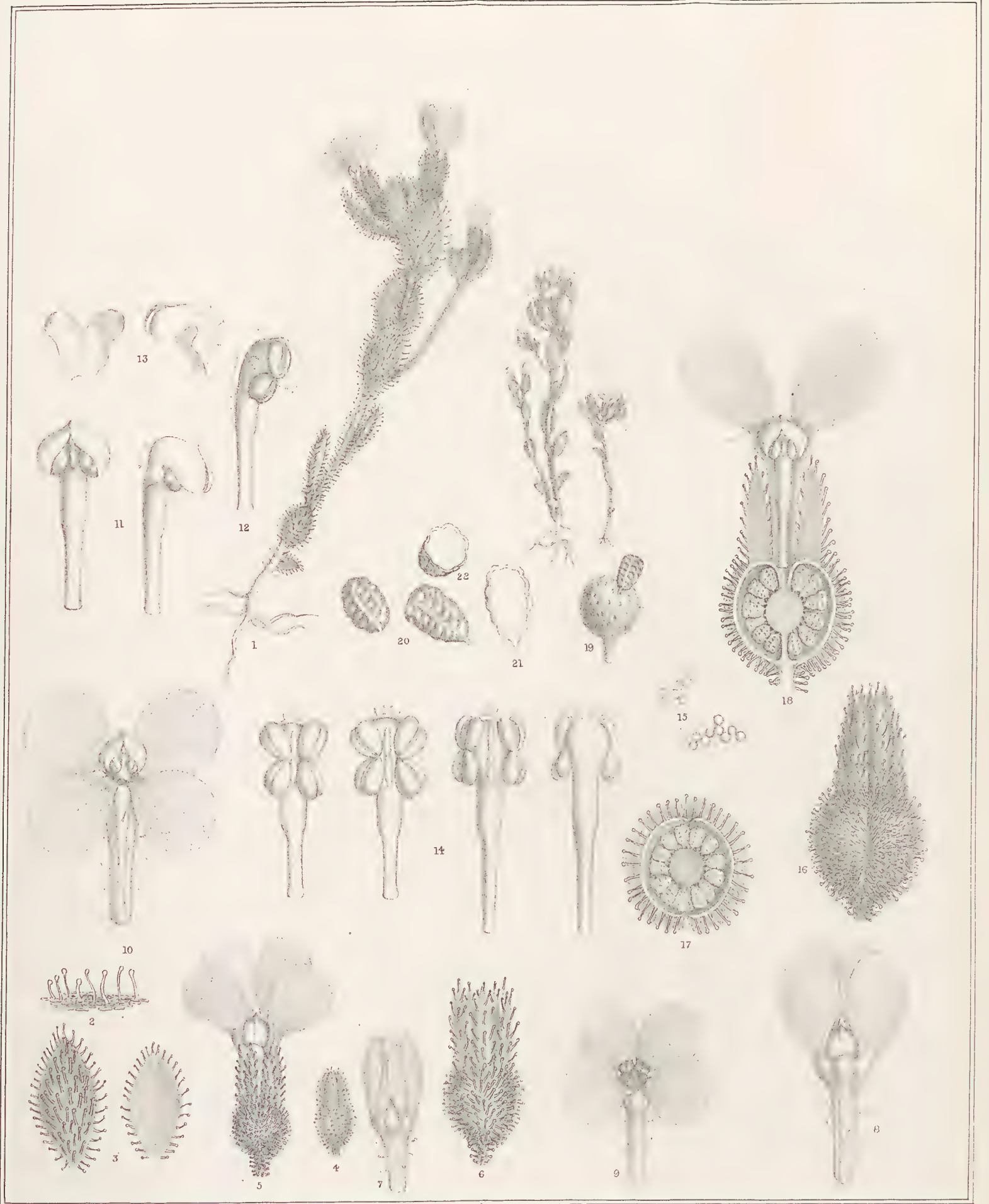
LEEUVENHOEKIA CREBERRIMA.

F. M. Fragm. Phyt. Austr. iii. 121.

PLATE XLVIII.

Figure 1, an entire plant.

- 2, glandular indument.
- 3, leaves, front- and back-side.
- 4, a flower in bud.
- 5, a flower expanded.
- 6, calyx, separated.
- 7, corolla, closed.
- 8, back-view of corolla.
- 9, front-view of corolla; the labellum removed.
- 10, front-view of corolla, exhibiting the labellum.
- 11, labellum and columnæ, seen from the front and side.
- 12, longitudinal section of the same.
- 13, front- and side-view of labellum.
- 14, columnæ with anthers and stigmata.
- 15, pollen-grains.
- 16, side-view of fruit.
- 17, transverse section of fruit.
- 18, longitudinal section of flowers and fruit.
- 19, placenta, with a seed left.
- 20, seeds.
- 21, longitudinal section of a seed.
- 22, transverse section of a seed.



F. Schönfeld, del. & lith.

F. Mueller, direxit.

De Cruchy & Leigh, imp.

Leeuwenhoekia creberrima, F.M.

VELLEYA CONNATA.

F. M. in Transact. Phil. Soc. Vict. i. 18 ; in Hook. Kew Miscell. viii. 162.

PLATE XLIX.

Figure 1, flower in bud, part of the calyx bent open.

2, developed flower, the calyx bent downward.

3, the internal arrangements of the flower-parts thus visible.

4, stamens.

5, pollen-grains.

6, styles.

7, fruit-bearing calyx.

8, capsule, surrounded by the calyx, seen from above.

9, side-view of a capsule, part of the calyx bent downward.

10, capsule, with two of the valves separated, to show the arrangement of the seeds.

11, vertical section of a capsule.

12, septum.

13, seed, presenting its edge.

14, seed, presenting its face.

15, longitudinal section of a seed.

16, embryo.



F. Mueller, del. & lit.

F. Mueller, del. & lit.

F. Mueller, del. & lit.

Velleia connata, F.M.

LOBELIA PURPURASCENS.

R. Br. Prodr. Flor. Nov. Holl. 563 ; Alph. Cand. Prodr. Syst. Nat. Regn. Veg. vii. 365 ;
L. ilicifolia, Sims, Bot. Mag. t. 1896.

PLATE L.

Figure 1, flower in bud.

2, side-view of a flower.

3, back-view of a flower.

4, front-view of a flower.

5, corolla, flattened out.

6, calyx.

7, calyx and stamens.

8, columns of stamens.

9, a column of stamens laid open, and a style.

10, one of the lower anthers, burst.

11, pollen-grains.

12, styles.



F. Schönfeld, del. & lith.

F. Mueller, direxit

De Gruchy & Leigh, imp.

Lobelia purpurascens, R Br.

WITTSTEINIA VACCINIACEA.

F. M. Fragm. Phyt. Austr. ii. 136 & iii. 166.

PLATE LI.

Figure 1, a flower in bud.

2, a flower not fully developed.

3, a fully developed flower.

4, corolla, flattened out.

5, stamens.

6, pollen-grains.

7, style and a separate stigma.

8, calyx after florescence.

9, longitudinal section of an ovary.

10, transverse section of an ovary.

11, longitudinal section of a berry.

12, transverse section of a berry.

13, seeds.

14, longitudinal sections of a seed.



(J. Müller, direct.)

Wittsteinia vacciniacea . *W.*

STENANTHERA CONOSTEPHOIDES.

Sond. in Lehm. Plant. Preiss. i. 296 ; Pentataphrus Behrii, Schlechtend. Linnæa, 1847, 618.

PLATE LII.

Figure 1, leaves, front-, back- and side-views.

2, side-view of a flower.

3, bracts and bracteoles.

4, sepals.

5, side-view of a corolla.

6, corolla, flattened out, presenting the outer side.

7, corolla, flattened out, presenting the inner side.

8, stamens, back-, front- and side-views.

9, pollen-grains.

10, pistil, during anthesis.

11, pistil, after anthesis.

12, calyx, after anthesis.

13, ripe fruit, enclosed by the bracts, bracteoles and calyx.

14, drupe.

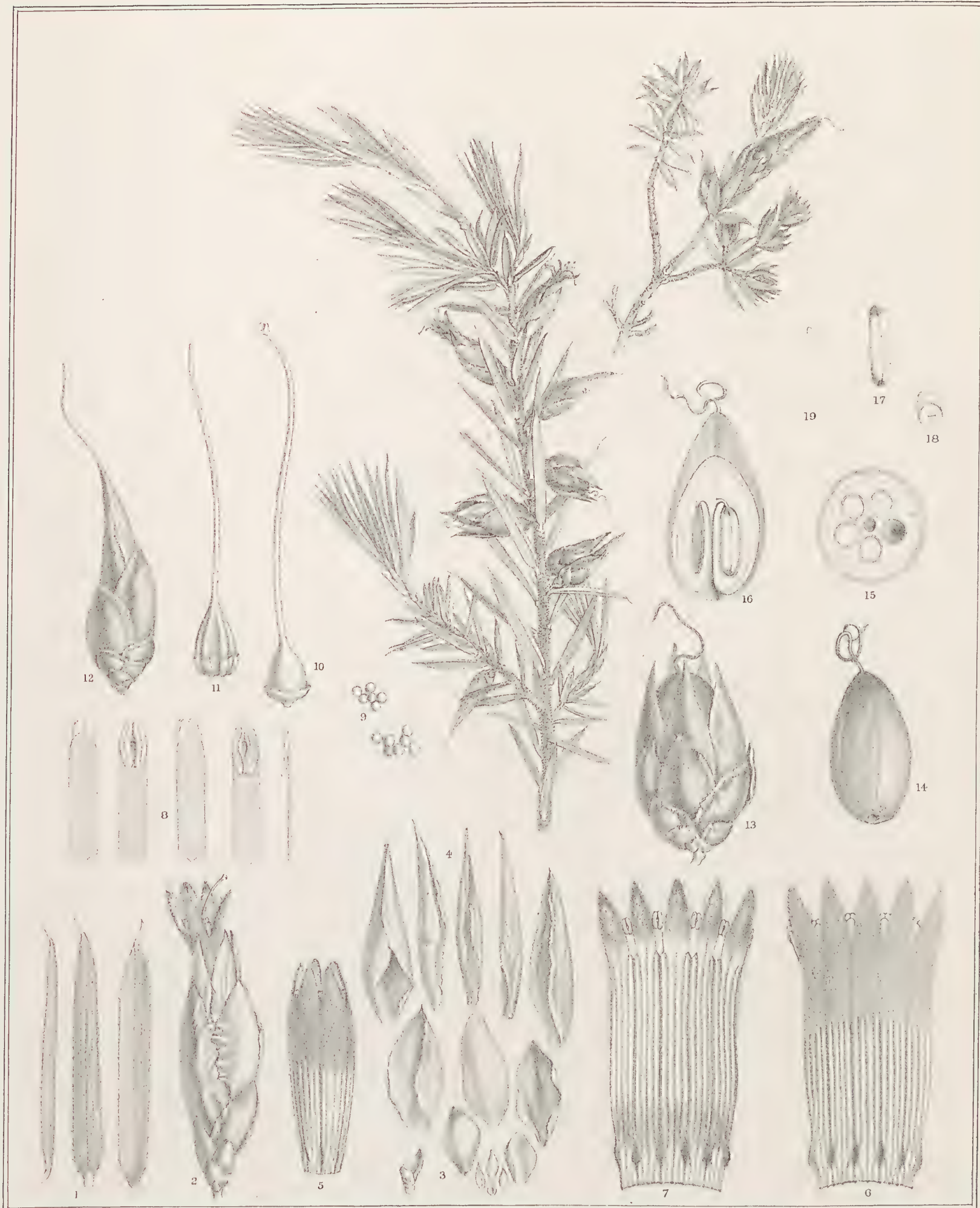
15, transverse section of drupe.

16, longitudinal section of drupe.

17, seed.

18, transverse section of seed.

19, longitudinal section of seed.



F. Schönfeld, del. & lith.

F. Mueller, direxit.

De Gruchy & Leigh, imp.

Stenanthera conostephoides Sond.

MYRSINE VARIABILIS.

R. Brown, Prodr. 534 ; Alph. Cand. Prodr. viii. 94.

PLATE LIII.

Figure 1, drupe.

2, flower in bud.

3, flower, expanded.

4, pedicel, calyx and pistil.

5, back-, front- and side-view of anthers.

6, pollen-grains.

7, ovary.

8, seeds.

9 & 10, sections of drupe.

11, embryo.



F. Schonfeld, del. & lith.

F. Mueller, direxit.

De Gruchy & Leigh, imp.

Myrsine variabilis, R. Br.

NOTELÆA LIGUSTRINA.

Ventenat, Choix des Plantes cultivées dans le Jardin de Cels, 25; R. Br. Prodr. 524;
Alph. Cand. Prodr. viii. 291; J. Hook. Flor. Tasm. i. 268.

PLATE LIV.

Figure 1, a flowering raceme.

2, side-view of an unexpanded flower.

3, a flower, one pair of petals removed.

4, a pair of petals, enclosing stamen.

5, petals separated.

6, anthers and a diagram of one.

7, pollen-grains.

8, calyx and pistil.

9, drupe.

10, longitudinal section of an ovary.

11, latitudinal section of an ovary.

12, latitudinal section of a drupe.

13, longitudinal section of a drupe.

14, seed.

15, views of embryo.



F. Schönfeld, del. & lith.

J. Mueller, direxit.

De Gruchy & Leigh, imp.

Notelaea ligustrina Vent.

EREMOPHILA BIGNONIFLORA.

F. M. in Papers of the Royal Society of Tasm. iii. 294; Report on the Plants of Babbage's Expedition, 17;
Stenochilus bignoniflorus, Benth. in Mitch. Trop. Austr. 386; Walp. Annal. Bot. Syst. iii. 242.

PLATE LV.

Figure 1, a flower in bud.

2, a young flower, the corolla removed.

3, a well developed flower.

4, corolla with stamens and style.

5, corolla, laid open.

6, front-, back- and side-view of young stamens.

7, stamens, in age.

8, pollen-grains.

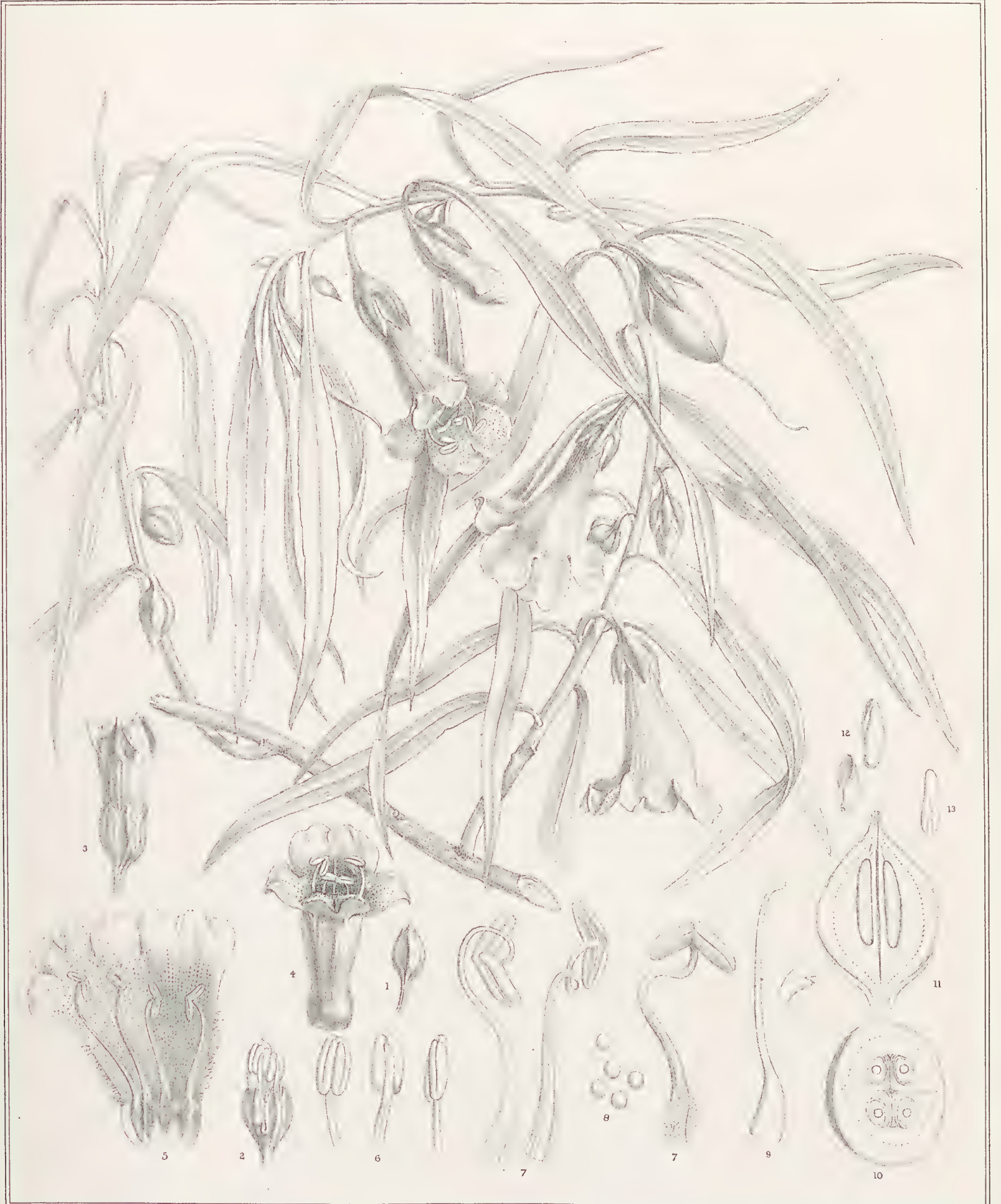
9, pistil.

10, transverse section of a drupe.

11, longitudinal section of a drupe.

12, seeds.

13, embryo.



F. Schönfeld, del. & lith.

F. Mueller, direxit.

De Gruchy & Leigh, imp.

Eremophila bignoniiflora, F. M.

PROSTANTHERA SPINOSA.

F. M. in Transact. Phil. Soc. Vict. i. 48 ; in Hook. Kew Miscell. viii. 168.

PLATE LVI.

Figure 1, front-view of a calyx.

2, side-view of a calyx.

3 & 4, unexpanded flowers.

5, corolla in bud.

6, expanded flower with its bracteolate pedicel.

7, flower, seen from beneath.

8, flower, seen from above.

9, corolla, laid open.

10, front-view of a stamen.

11, back-view of a stamen.

12, front-view of a stamen, the anthers burst.

13, appendages of anther.

14, pollen-grains.

15, pistil.

16, side-view of a fruit, a portion of the calyx removed.

17, a fruit, the calyx and two of the carpels removed.

18, front-, back- and side-view of a carpel.

19, latitudinal section of a carpel.

20, longitudinal section of a carpel.

21, section of seed.

22, embryo.



E. Schonfeld, del. & lith.

F. Mueller, direxit.

De Gruchy & Legh, imp.

Prostanthera spinosa, F.M.

HALGANIA ANDROMEDIFOLIA.

Behr & Muell. in F. M. Fragm. Phyt. Austr. i. 209.

PLATE LVII.

Figure 1, a flowering branchlet.

2, a calyx and pistil.

3, a flower, expanded.

4, a corolla, flattened out.

5, cone of anthers.

6, anthers separated.

7, side-, back- and front-view of anthers.

8, pollen-grains.

9, pistil.

10, side-view of a fruit.

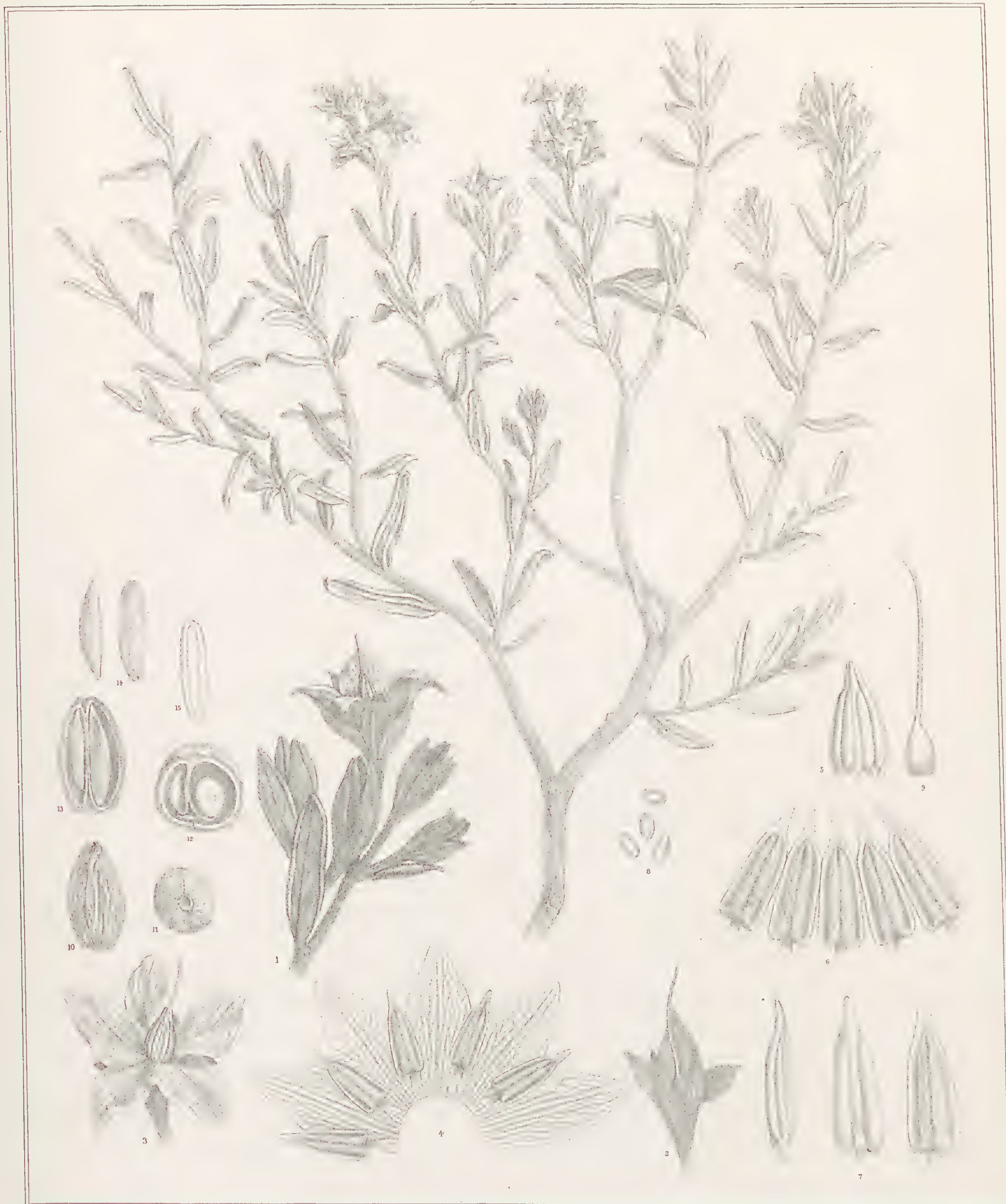
11, fruit, seen from the base.

12, transverse section of fruit.

13, longitudinal section of fruit.

14, back- and side-view of seed.

15, longitudinal section of a seed.



F. Schönfeld, del. & lith.

F. Mueller, direct.

De Gruchy & Leigh, imp.

Halgania andromedifolia. BEHR. & MUELL.

PARSONSIA STRAMINEA.

Lyonsia straminea, R. Brown, Prodr. 466; Alph. Cand. Prodr. viii. 401; J. Hook. Flor. Tasm. i. 270.

PLATE LVIII.

Figure 1, a flower in bud.

2, a flower, expanded.

3, corolla, laid open.

4, cone of stamens.

5, front-, back- and side-view of an anther.

6, a stamen, showing its affixion to the stigma.

7, diagram of an anther.

8, pollen-grains.

9, style and stigma.

10, calyx opened, to show the ovary.

11, valve of a capsule.

12, transverse section of a capsule.

13, a seed.

14, arista.

15, transverse section of a seed.

16, 17 & 18, dorsal and lateral views of embryo, in 17 the cotyledons bent asunder.

19, diagram of a flower.



F. Ventula, delin.

F. Mueller, dir. ex. lit.

De Gruchy & Leigh, imp.

Lyonsia straminea, R. Br.

RHYNCHARRHENA QUINQUEPARTITA.

F. M. Fragm. Phyt. Aust. i. 128.

PLATE LIX.

Figure 1, a flower-bunch before anthesis.

2, a flower, in bud.

3, a flower, expanding.

4, a flower, expanded.

5, a flower, bent open to show the stamens.

6, anther and its pollen-masses.

8, pistil, without stamens.

9, pistil, the stamens partially removed.

10, vertical view of pistil and stamens.

11, lateral view of pistil and stamens.

12, a stamen.

13, longitudinal section of pistil and calyx, part of the stamens retained.

14, transverse section of ovary.

15, transverse section of a single fruit.

16, a seed.

17, a seed without its fascicle of hair.

18, transverse section of a seed.

19, albumen and embryo.

20 & 21, views of embryo, the cotyledons slightly bent asunder.



F. Schönfeld, del. & lith.

F. Mueller, direxit.

De Gruchy & Leigh, imp.

Rhyncharrhena quinquepartita, F.M.

LOGANIA NUDA.

F. M. Fragm. Phyt. Austr. i. 129.

PLATE LX.

Figure 1, a flower in bud, on its bracteolate pedicel.

2, a flower expanding.

3, corolla laid open, showing the outer side.

4, corolla laid open, showing the inner side.

5, flower without corolla.

6, front- and back-view of a stamen.

7 & 8, pollen-grains.

9, pistil.

10, fruit, complete.

11, fruit, valves and seeds removed.

12, transverse section of capsule.

13, carpels.

14, a valve.

15, a carpel, fully burst open.

16, back-view of a seed.

17, front-view of a seed.

18, longitudinal section of a seed.

19, transverse section of a seed.



F. Schönfeld, del. & lith.

F. Mueller, direxit.

De Gruchy & Leigh, imp.

Logania nuda, F.M.

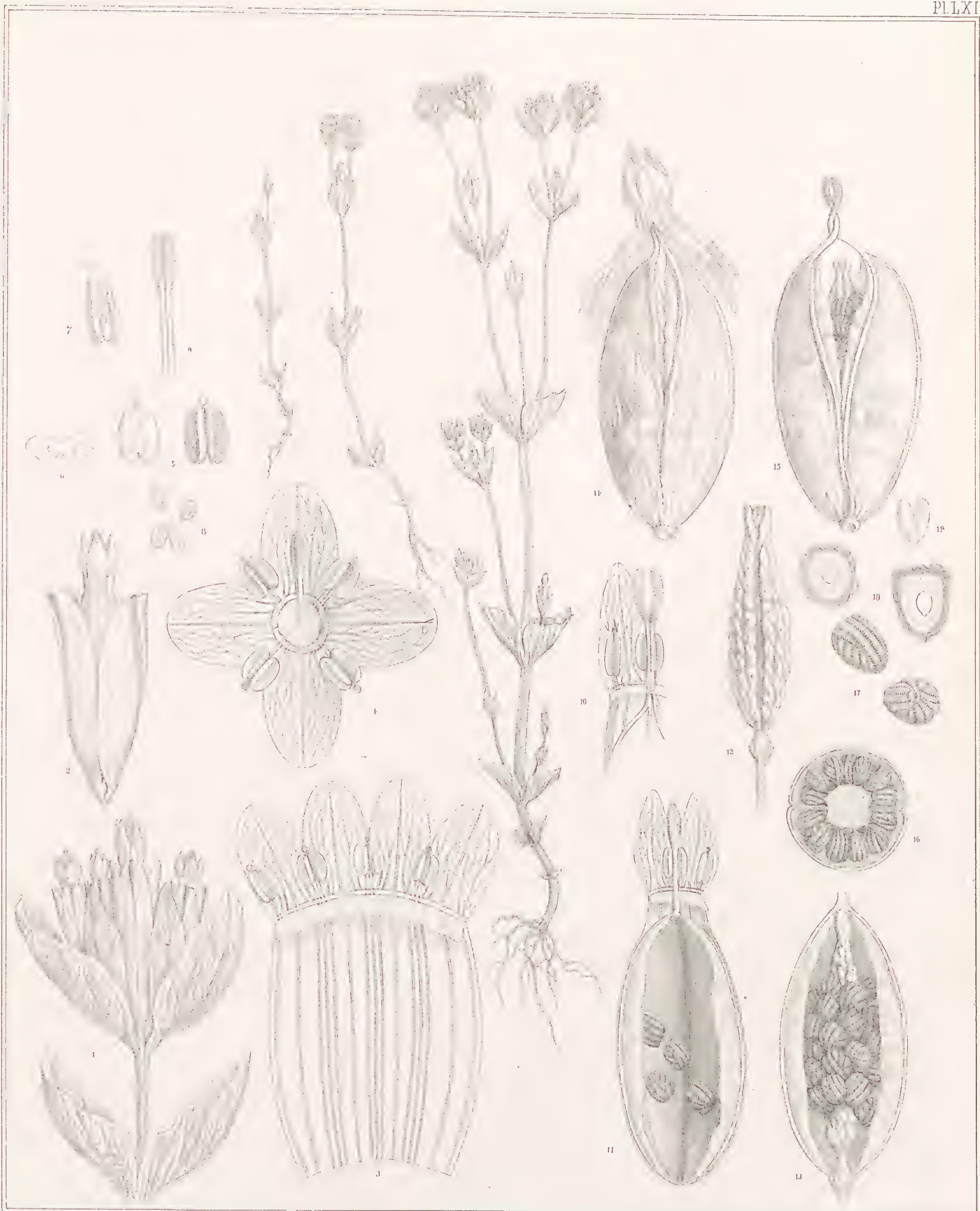
SEBÆA ALBIDIFLORA.

F. M. in Transact. Phil. Soc. i. 46 ; in Hook. Kew Miscell. viii. 164.

PLATE LXI.

Figure 1, a flowering branchlet.

- 2, a flower.
- 3, corolla, laid open.
- 4, vertical view of limb of corolla, stamens and style.
- 5, front- and back-view of an anther.
- 6, diagram of an anther.
- 7, an aged anther.
- 8, pollen-grains.
- 9, style, separate.
- 10, style, with part of the corolla and stamens.
- 11, longitudinal section of a flower, advanced in age.
- 12, placental column.
- 13, one of the two divisions of the fruit, burst open.
- 14, a complete capsule, bearing the faded corolla.
- 15, a capsule with its styles, the corolla dejected.
- 16, transverse section of a capsule.
- 17, dorsal and basal view of a seed.
- 18, transverse and longitudinal section of a seed.
- 19, embryo.



F. Schönfeld, del. & lith.

F. Mueller, direxit.

Fe Gruchy & Leigh, imp.

Sebaea albidiflora. F. M.

SOLANUM VESCUM.

F. M. in Proceed. Vict. Inst. i. 69; in Hook. Kew Miscell. viii. 165.

PLATE LXII.

Figure 1 & 2, flowers in bud.

3, vertical view of a flower.

4 & 5, stamens.

6, apex of an anther.

7, pollen-grains.

8, pistil.

9, transverse section of a berry.

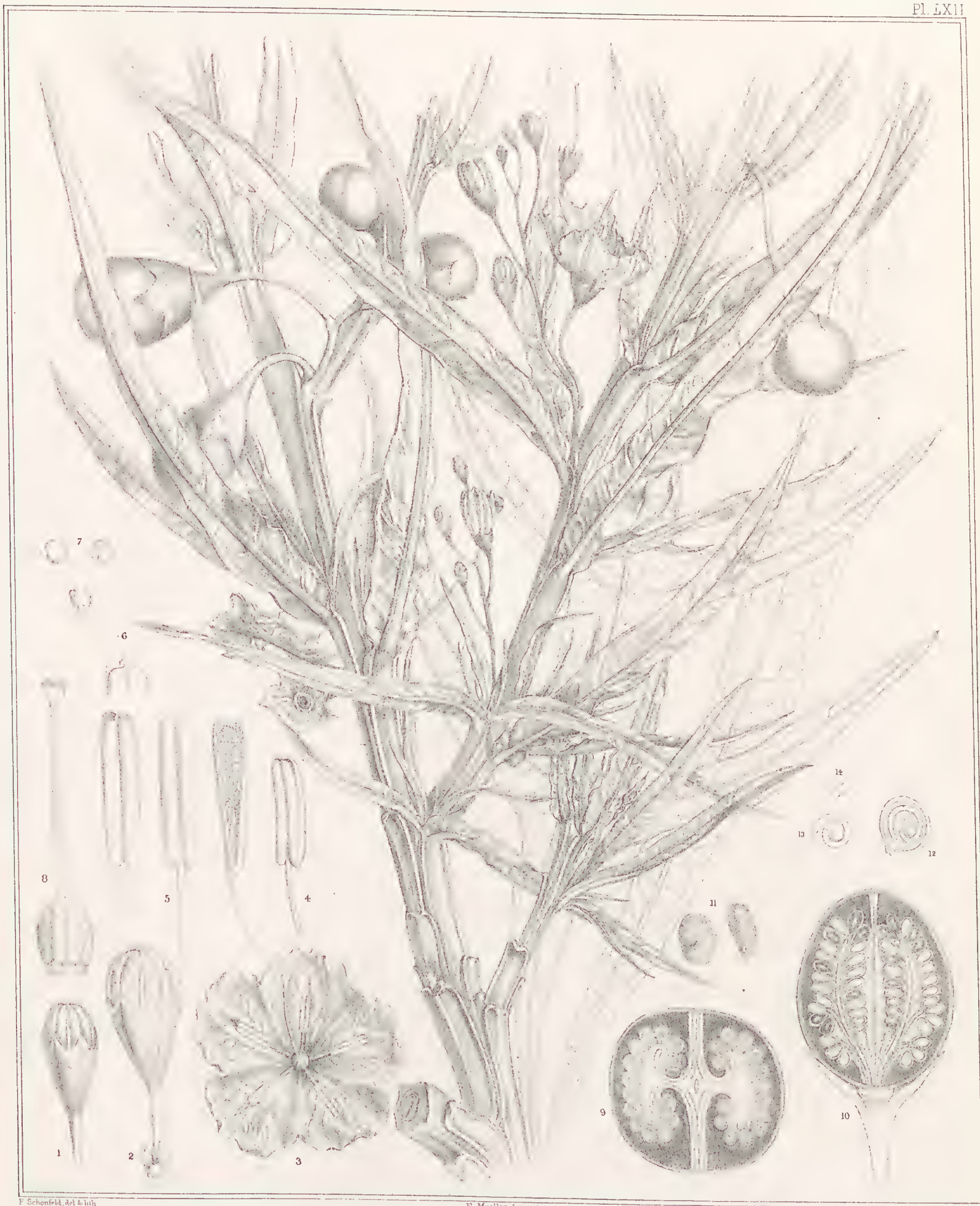
10, longitudinal section of a berry.

11, side- and edge-view of a seed.

12, longitudinal section of a seed.

13, embryo.

14, section of radicle.



F. Schonfeld, del. & lith.

F. Mueller direxit.

De Gruchy & Leigh, imp.

Solanum vescum. F. M.

VERONICA DENSIFOLIA.

F. M. Fragm. Phyt. Austr. ii. 137 ; *Pæderata densifolia*, F. M. in Transact. Phil. Soc. Vict. i. 107 ;
in Hook. Kew Miscell. viii. 202.

PLATE LXIII.

Figure 1, separate leaves.

- 2, vertical view of rows of leaves.
- 3, a flower in bud.
- 4, a flower expanding.
- 5, a corolla, back-view.
- 6, a corolla, front-view.
- 7, a corolla, the lobes bent asunder to show the stamens and style.
- 8, lobes of corolla.
- 9, side-view of the smaller lobe of the corolla, with stamens and style.
- 10, pistil, with the adjacent small lobe of the corolla, and one of the larger lobes.
- 11, a lobe of the corolla, with a stamen attached.
- 12, front-view of a stamen.
- 13, back-view of a stamen.
- 14, side-view of a stamen.
- 15, pollen-grains.
- 16, calyx and pistil, after the lapse of the corolla.
- 17, pistil.
- 18, capsule, presenting its flat side.
- 19, capsule, presenting its edge.
- 20, capsule, bursting.
- 21 & 22, longitudinal sections of a capsule.
- 23, septum and seeds.
- 24, a seed.
- 25, longitudinal section of a seed.
- 26, transverse section of a seed.
- 27, side-view of an embryo.
- 28, front-view of an embryo.



J. Schomburgk, del. & lith.

F. Mueller, d. text.

De Gruchy & Leigh, imp.

Veronica densifolia. *FM*

POLYPOMPHOLYX EXIGUA.

F. M. in. Transact. Phil. Soc. Vict. i. 50 ; in Hook. Kew Miscell. viii. 203.

PLATE LXIV.

Figure 1, utricles, root, leaves and part of a stem.

2 & 3, upper part of a stem, with a flower in bud and another developed.

4, side-view of a corolla.

5, front-view of a stamen.

6, back-view of a stamen.

7, pollen-grains.

8, stamens in situ and pistil.

9, a flower after anthesis, the shrivelled corolla seceded.

10, a flower after anthesis, without its corolla.

11, a capsule, side-view.

12, longitudinal section of a capsule.

13, placenta.

14, vertical and basal view of a seed.

15, sections of seed.



F. Schimper, del.

F. Mueller, pinxit.

De Gruchy & Leigh, imp.

Polypompholyx exigua, F. M.

STATICE TAXANTHEMA.

Schult. Syst. Veget. vi. 798; S. Australis, Spreng. Syst. Veg. i. 959; Boissier in Cand. Prodr. xii. 643;
J. Hook. Flor. Tasm. i. 301; Taxanthema australis, R. Br. Prodr. 427.

PLATE LXV.

Figure 1, a spikelet, surrounded by bracts.

2, bracts and flowers of a spikelet, separated.

3, flowers and bracteoles.

4, back-view of a petal.

5, front-view of a petal and stamen.

6, edge-view of a petal.

7, front- and back-view of a stamen.

8, pollen-grains.

9, a flower laid open.

10, pistil.

11, pericarp.

12, a complete fruit.

13, endocarp with seed.

14, endocarp opened, funicle and seed.

15, transverse section of endocarp and seed.

16, embryo.



F. Schönfeld, del. & lith.

F. Mueller, direxit.

De Gruchy & Leight, imp.

Statice Australis Spr.

PLANTAGO STELLARIS.

F. M. Fragm. Phyt. Austr. ii. 23.

PLATE LXVI.

Figure 1, a flower in bud.

2, a flower in anthesis.

3, a flower past anthesis.

4, calyx.

5, bracteole.

6, sepals.

7, corolla without stamens.

8, corolla with stamens, laid open.

9, side-, back- and front-view of an anther.

10, diagram of an anther.

11, pollen-grains.

12, pistil.

13, a pair of fruits with bracteoles and sepals.

14, longitudinal section of a capsule.

15, transverse section of a capsule.

16, side-view of a capsule.

17, capsule burst.

18, septum and seeds.

19, septum.

20, front- and back-view of a seed.

21, longitudinal and transverse section of a seed.

22, embryo.



F. Schönfeld, del. & lith.

F. Mueller, direxit.

De Gruchy & Leigh, imp.

Plantago stellaris. F. M.

BOERHAAVIA MUTABILIS.

R. Br. Prodr. Flor. Nov. Holl. 422 ; Choisy in Cand. Prodr. xiii. ii. 455.

PLATE LXVII.

Figure 1, a young flowering branch.

2, a flower in bud.

3, a flower, developed.

4, a flower, laid open.

5, stamens.

6, pollen-grains.

7, style and stigma.

8, young fruit, with its style, pedicel and bracteoles.

9, ripe fruit, dry.

10, ripe fruit, moist.

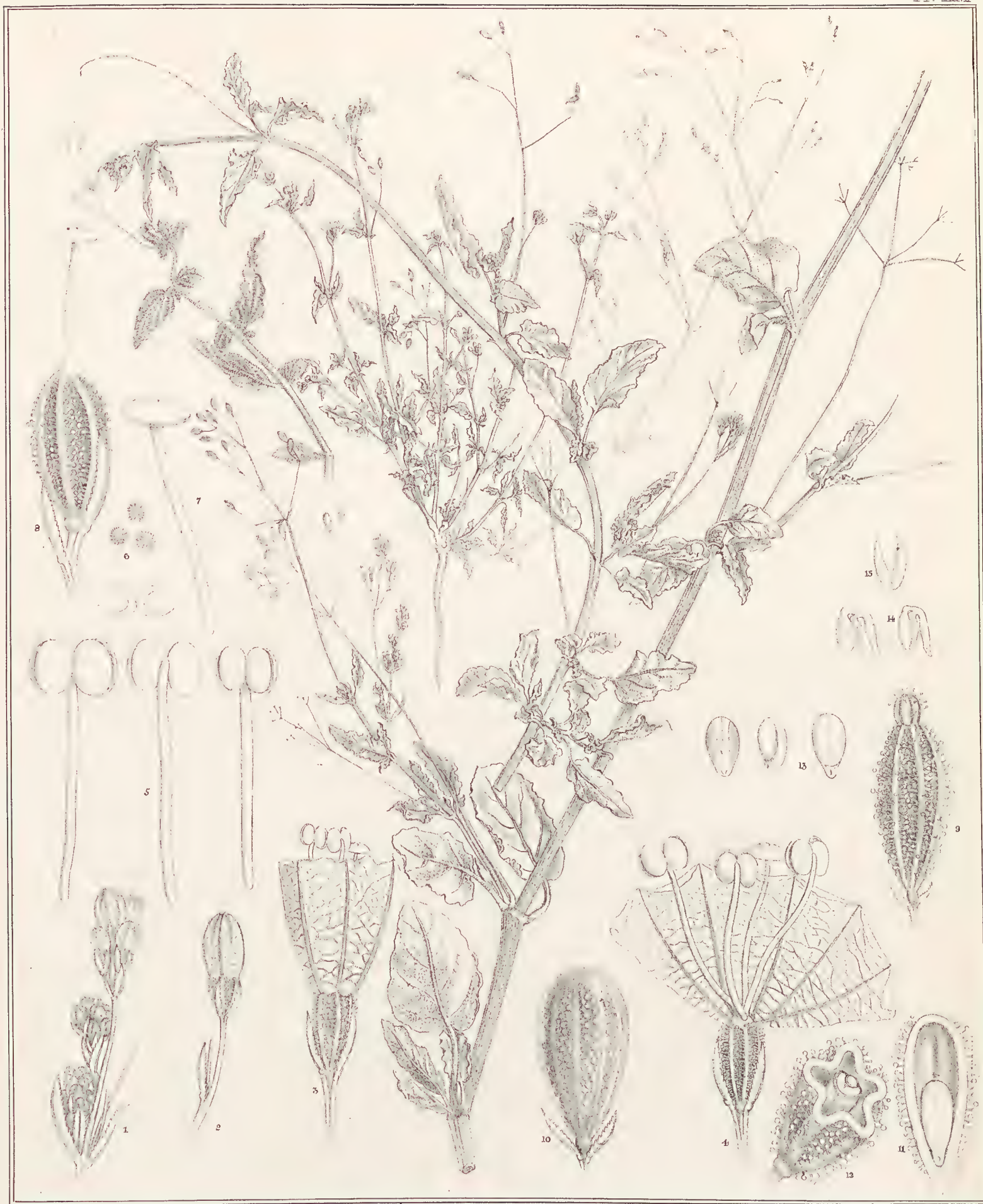
11, longitudinal section of a fruit.

12, transverse section of a fruit.

13, back-, front- and side-view of a seed.

14, embryo.

15, albumen.



F. Schonfeld del & lith.

F. Mueller direxit.

De Gruchy & Leigh imp.

Boerhaavia mutabilis R.Br.

CASSYTHA GLABELLA.

R. Brown, Prodr. 404; J. Hook. Flor. Tasman. i. 318; ii. 369; Meisn. in Cand. Prodr. xv.

PLATE LXVIII.

Figure 1, a flower-head.

2, side-view of a single flower.

3, vertical view of an expanded flower.

4, bracteoles.

5, outer lobes of the calyx.

6, inner lobes of the calyx.

7, fertile stamens, opposite to the inner lobes of the calyx.

8, front- and back-view of a fertile stamen.

9, fertile stamens, with staminodia at the base.

10, a barren stamen.

11, pistil.

12, side-view of a complete flower during anthesis.

13, side-view of a flower past anthesis.

14, fruit, enclosed in the calyx.

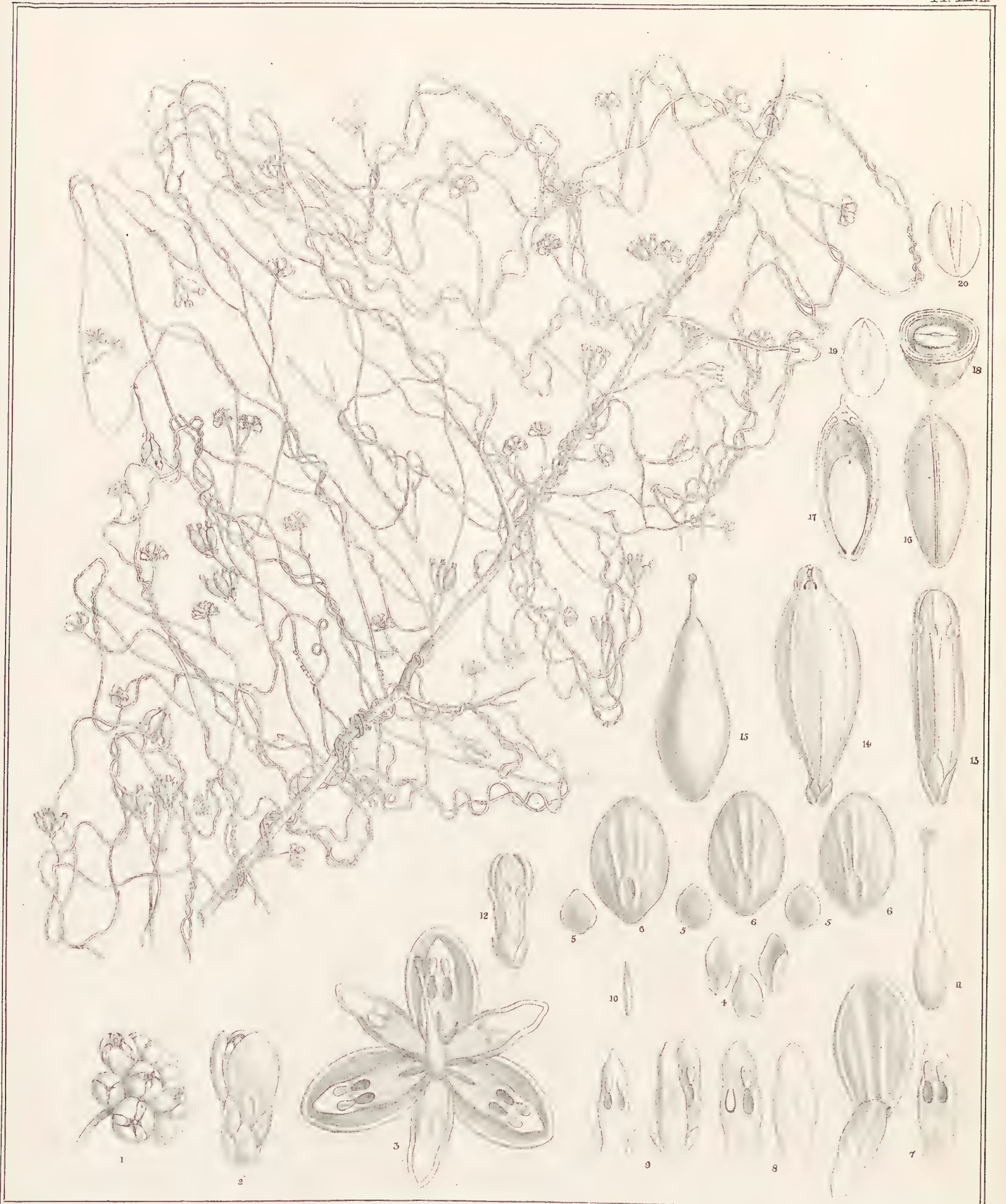
15, young fruit, the calyx removed.

16, aged fruit, the calyx removed.

17, longitudinal section of a fruit.

18, transverse section of a fruit.

19 & 20, views of embryo.



F. Schomburgk del. & lith.

F. Mueller direct.

De Gruchy & Leigh. imp.

Cassytha glabella R.Br.

PERSOONIA CALEYI.

R. Brown, Prodr. Suppl. p. 13 ; Meisn. in Cand. Prodr. xiv. 335 ; P. Chamæpeuce, Lhotzky in Cand.
Prodr. xiv. 336.

PLATE LXIX.

Figure 1, a branchlet with leaves.

2, a flower in bud.

3, a flower expanded.

4, dorsal view of a sepal.

5, frontal view of a sepal.

6, edge-view of sepals.

7, a sepal and stamen, viewed in front.

8, pistil and side-view of a sepal and stamen.

9, side-view of a sepal and stamen and diagram of an anther.

10, sepals and stamens after anthesis.

11, back-view of an anther.

12, pollen-grains.

13, pistil.

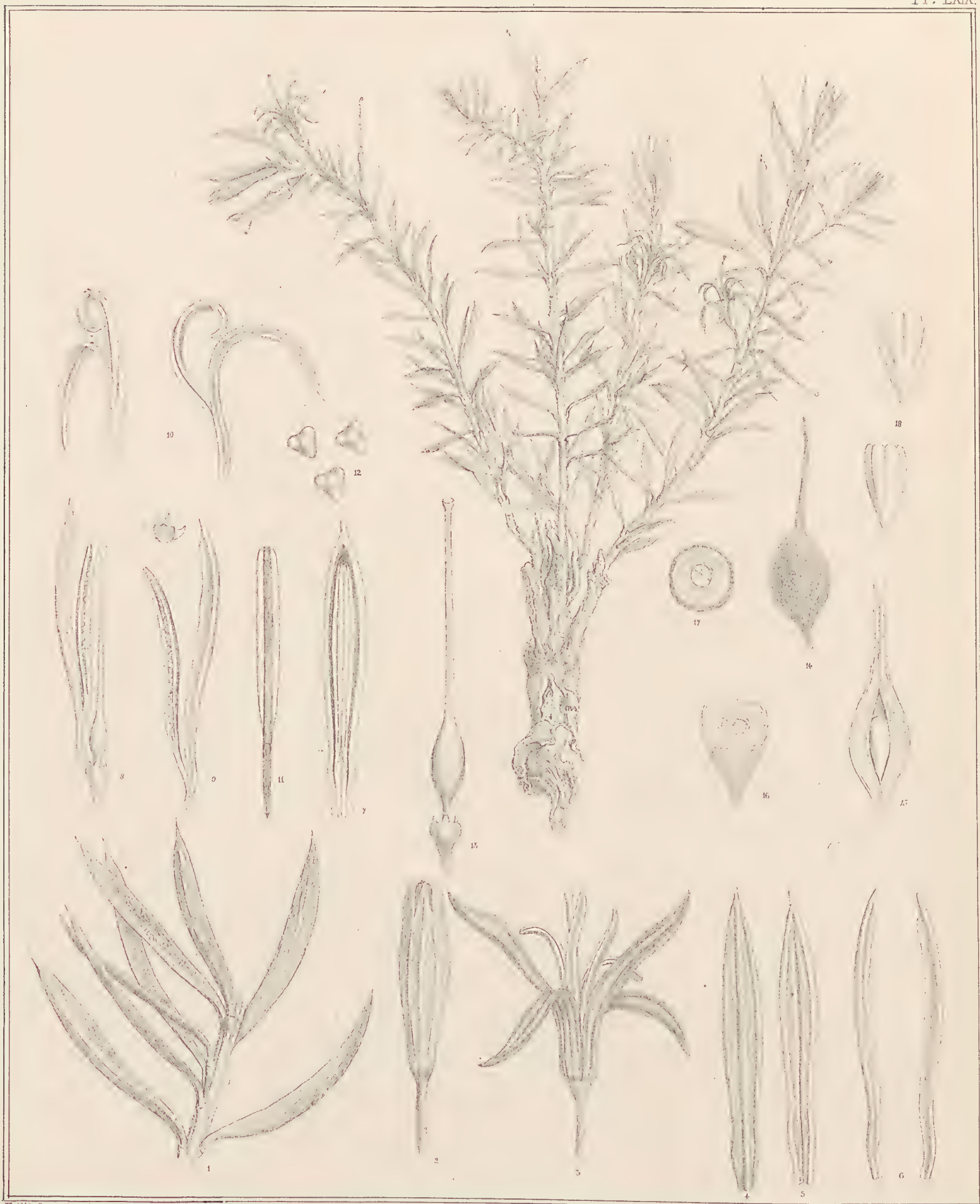
14, drupe and style.

15, longitudinal section of a dry fruit.

16, transverse section of a dry fruit.

17, diagram of the same.

18, embryo.



F. Schönfeld del. & lith.

F. Mueller direct.

De Gruchy & Leigh imp.

Persoonia Caleyi R. Br.

CONOSPERMUM PATENS.

Schlechtendal, Linnæa, xx. 578 ; Meisn. in Cand. Prodr. xiv. 321.

PLATE LXX.

Figure 1, leaves.

2, 3 & 4, bracteolate flower-buds.

5 & 6, unexpanded flowers.

7, expanded flower.

8, the same without bracteoles laid open to exhibit the pistil.

9, internal view of a flower laid open.

10, a perfect stamen.

11, a stamen with dimidiate anther.

12, filaments without anthers.

13, pollen-grains.

14, style.

15, young fruit.

16, bracteole of fruit.

17, side-view of a bracteolate fruit.

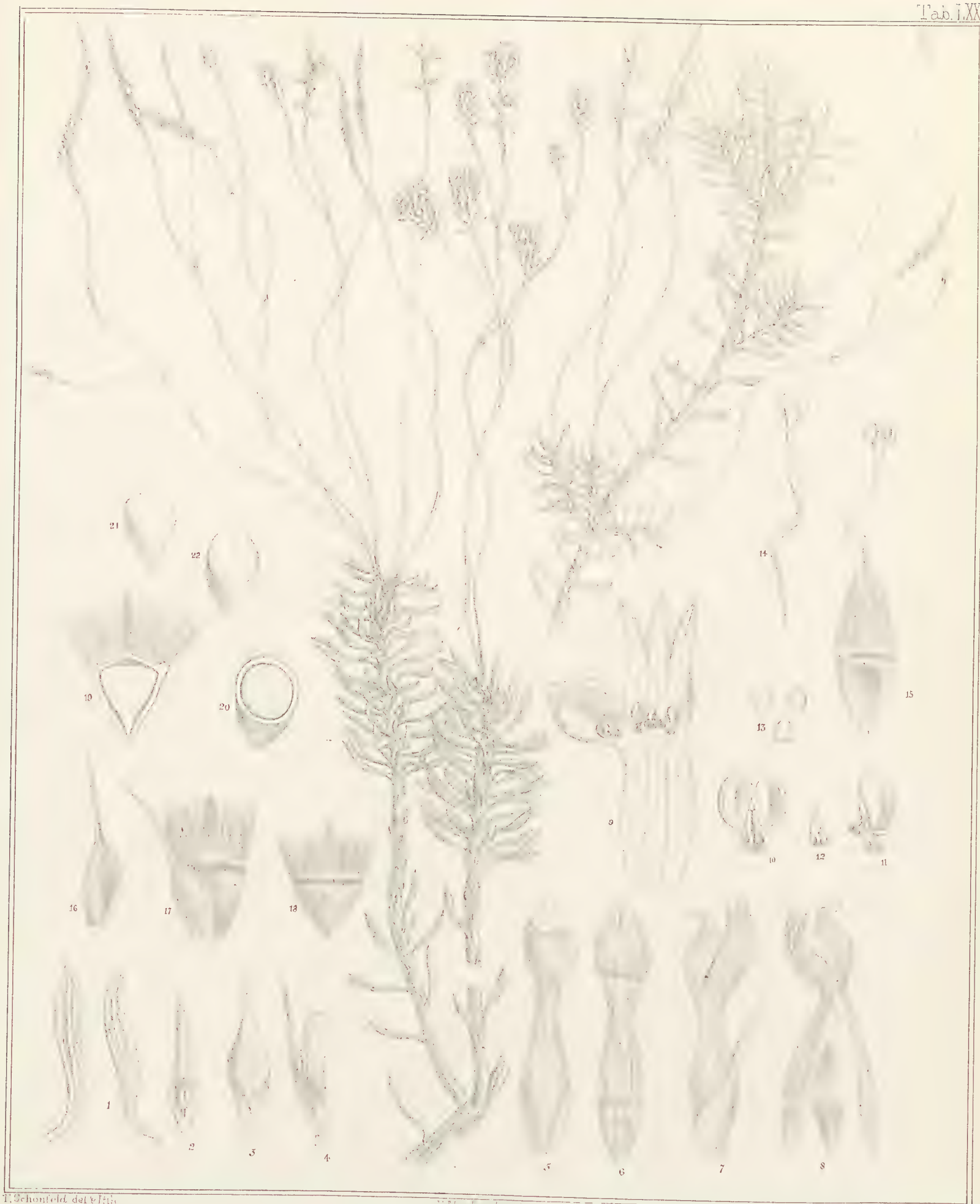
18, side-view of a fruit without bracteole.

19, longitudinal section of a fruit.

20, transverse section of a fruit.

21, side-view of a seed.

22, transverse section of a seed.



T. Schönfeld del. & lith.

V. Mueller brev. et

DeGruchy Leigh imp.

Conospermum patens Schlechtend.

GREVILLEA RIGIDISSIMA.

F. M. in Linnæa, xxvi. 356 ; Meisn. in Cand. Prodr. xiv. 350.

PLATE LXXI.

Figure 1, a leaf.

2, a young flower-bud.

3, a flower before expansion.

4, a flower expanding.

5 & 6, a flower expanded.

7, a flower laid open lengthwise.

8, front-view of an apex of a sepal with an anther.

9, side-view of the same.

10, front-view of an anther.

11, side-view of an anther.

12, pollen-grains.

13, pedicel and stalked pistil.

14, side-view of a fruit.

15, transverse section of a fruit.

16, a fruit burst open.

17, seeds.

18, back-view of embryo.

19, edge-view of embryo.



F. Schimper del. & lith.

F. Mueller direct.

* De Gruchy & Leigh trap.

Grevillea rigidissima F.M.

ACACIA MITCHELLI.

Benth. in Hook. Lond. Journ. of Bot. i. 387 ; F. M. Plants Indig. to Viet. ii. 33 ;
Benth. Flor. Aust. ii. 417.

SUPPL. PLATE XII.

Figure 1, a branchlet with leaves.

2, a flower-head.

3, an unexpanded flower.

4, an expanded flower.

5, a flower, laid open.

6, stamens.

7, pollen-grains.

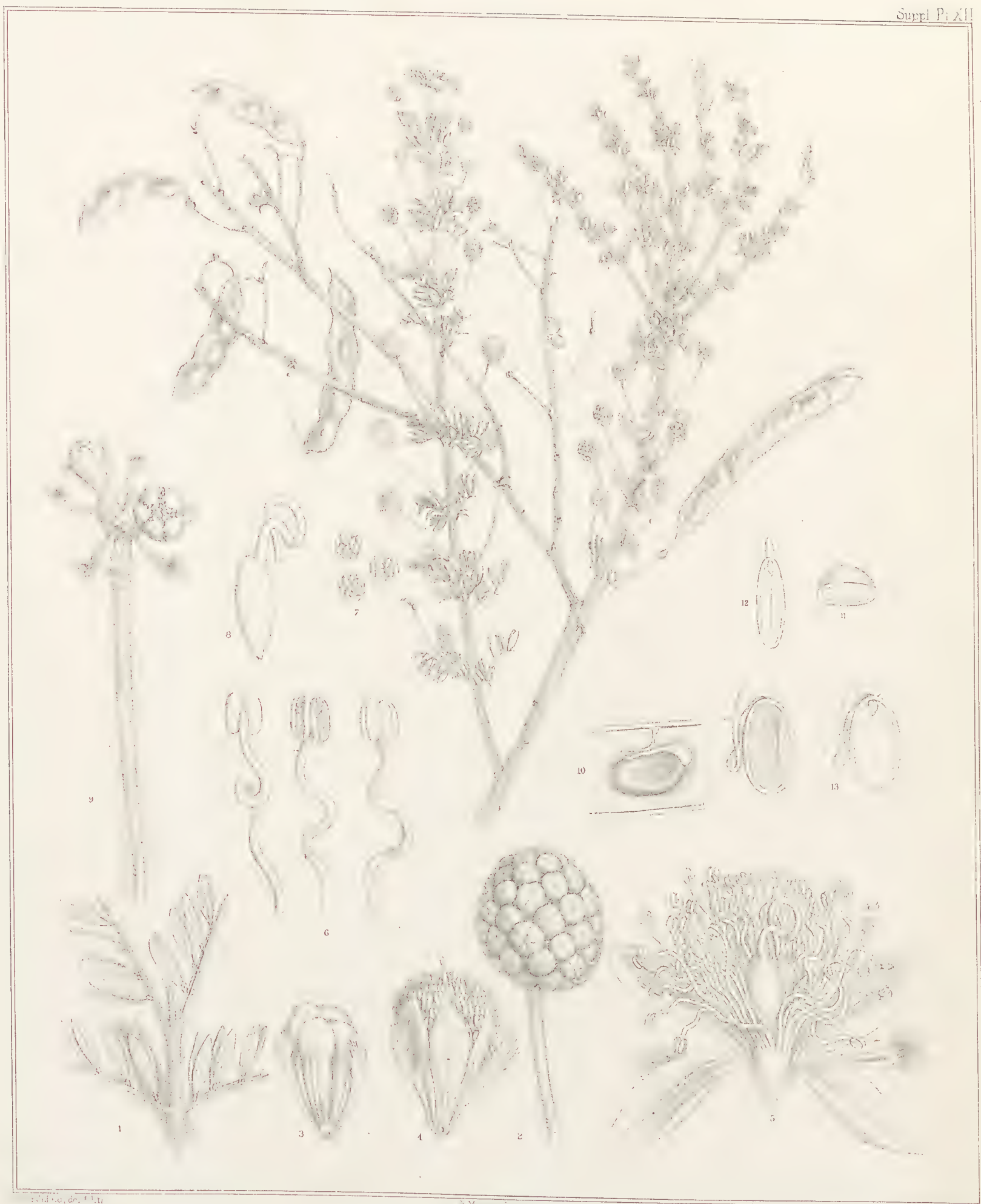
8, pistil.

9, peduncle, receptacle, some bracteoles and two remaining flowers.

10, part of fruit-valve with a seed.

11, transverse section of a seed.

12 & 13, longitudinal section of a seed.



Acacia Mitchelli Benth.

PULTENÆA ROSEA.

F. M. Fragm. Phyt. Austr. ii. 15; Benth. Flor. Austr. ii. 128; *Burtonia subalpina*, F. M. in Transact.
Phil. Inst. Vict. i. 39.

SUPPL. PLATE XIII.

Figure 1, a branchlet with stipules and leaves.

2, separate leaves with stipules.

3, a flower in bud.

4, side-view of a flower.

5, back-view of a flower.

6, calyx and bracteoles.

7, petals and stamens.

8, upper petal.

9, lower petals.

10, side-, back- and front-view of an anther.

11, pollen-grains.

12, pistil.

13, pistil, the ovary laid open.

14, pod, side-view.

15, pod, edge-view.

16, pod, opened.

17, a seed.

18, transverse section of a pod.



F. Schonfeld, del. & lith.

F. Mueller, direxit.

De Gruchy & Leigh, :mv

Pultenaea rosea, F.M.

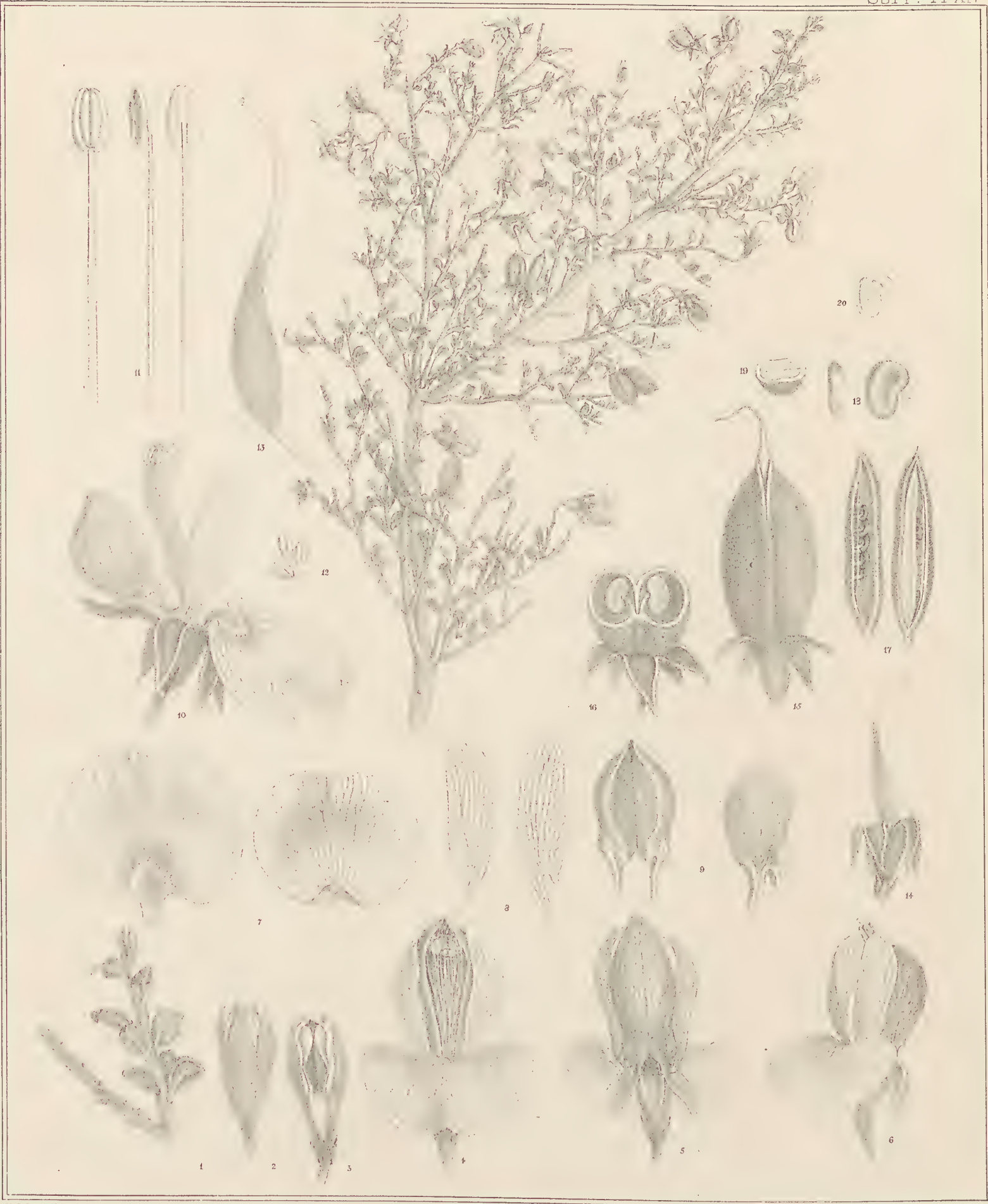
MIRBELIA OXYLOBIOIDES.

F. M. Fragm. Phyt. Austr. ii. 154 ; iv. 12 ; Benth. Flor. Austr. ii. 35.

SUPPL. PLATE XIV.

Figure 1, a branchlet.

- 2, a flower in bud.
- 3, the same, with the calyx partially opened.
- 4, vertical view of a flower.
- 5, basal view of a flower.
- 6, lateral view of a flower.
- 7, upper petal.
- 8, lateral petals.
- 9, lower petals.
- 10, flower, petals bent asunder.
- 11, side-, back- and front view of a stamen.
- 12, pollen-grains.
- 13, pistil.
- 14, calyx and pistil.
- 15, fruit with calyx.
- 16, transverse section of pod.
- 17, pod separated into its two divisions.
- 18, side- and front-view of a seed.
- 19, transverse section of a seed.
- 20, embryo.



F. Schonfeld. del. & Lith.

F. Mueller. direxit

DeGuchy & Leigh imp

Mirbelia oxylobioides. F.M.

TRIGONELLA SUAVISSIMA.

Lindl. in Mitch. Three Expedit. i. 255; Benth. Flor. Austr. ii. 187.

SUPPL. PLATE XV.

Figure 1, flower in bud.

2, lateral view of a flower.

3, a calyx.

4, flower without calyx.

5, lower petal.

6, lateral petals.

7, upper petal.

8, stamens, enclosing the pistil.

9, column of stamens, flattened out.

10, 11 & 12, front-, back- and side-view of a stamen.

13, pollen-grains.

14, pistil.

15, young fruit.

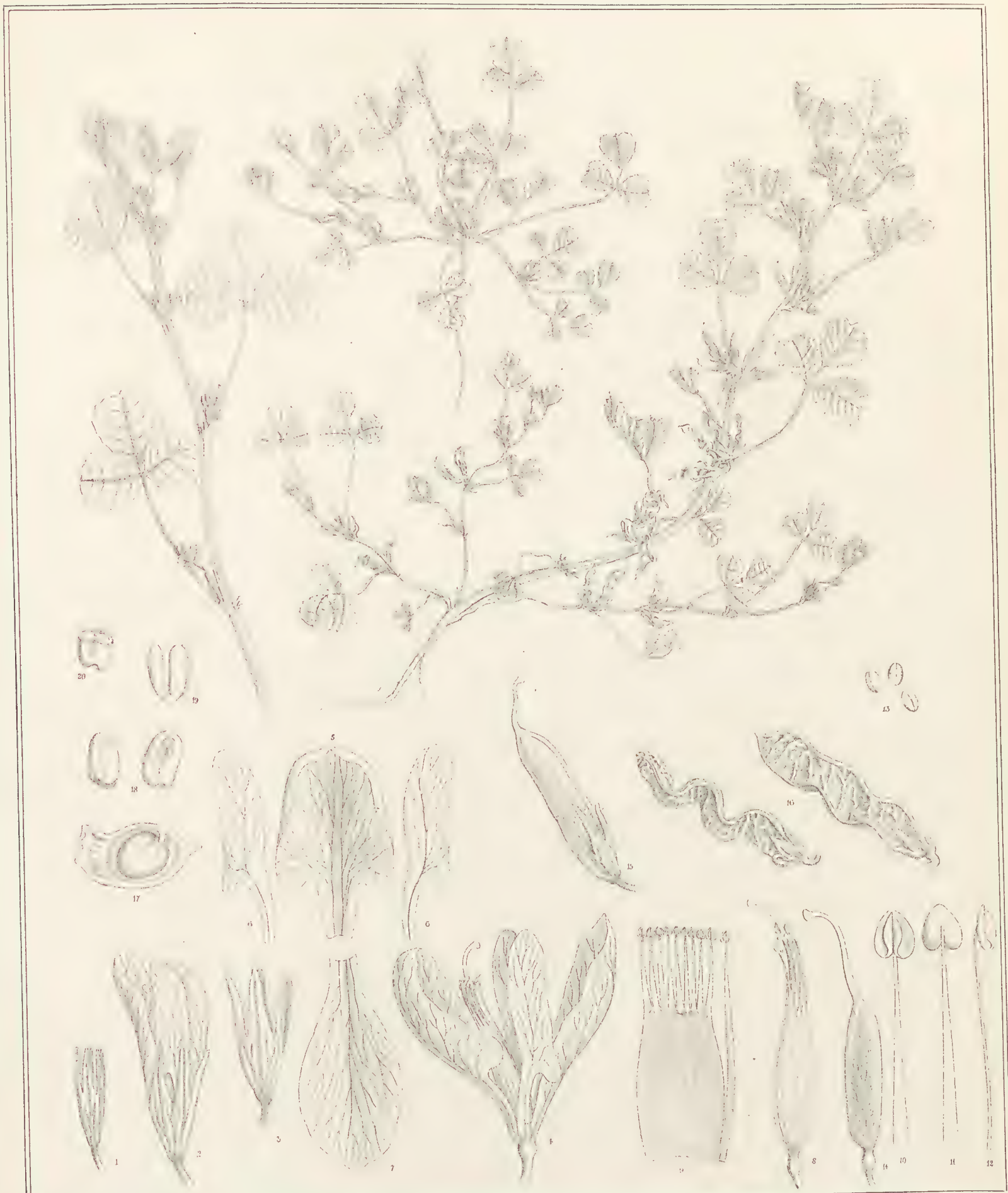
16, ripe fruits.

17, portion of a valve with one seed.

18, seeds.

19, embryo.

20, transverse section of a seed.



F. Schönfeld del. & Lith.

F. Mueller. direct.

De Gruy & Leigh imp.

Trigonella suavissima Lindl.

EUCALYPTUS GLOBULUS.

Labillardière, Voyage à la Recherche de La Pérouse, i. 153, t. 13; F. M. Fragm. Phyt. Austr. ii. 68.

SUPPL. PLATE XVI.

Figure 1, top- and side-view of a flower-bud.

2, a flower in bud, the lid separated.

3, longitudinal section of an unexpanded flower.

4, stamens.

5, pollen-grains.

6, style.

7, side- and top-view of a fruit.

8, longitudinal section of a fruit.

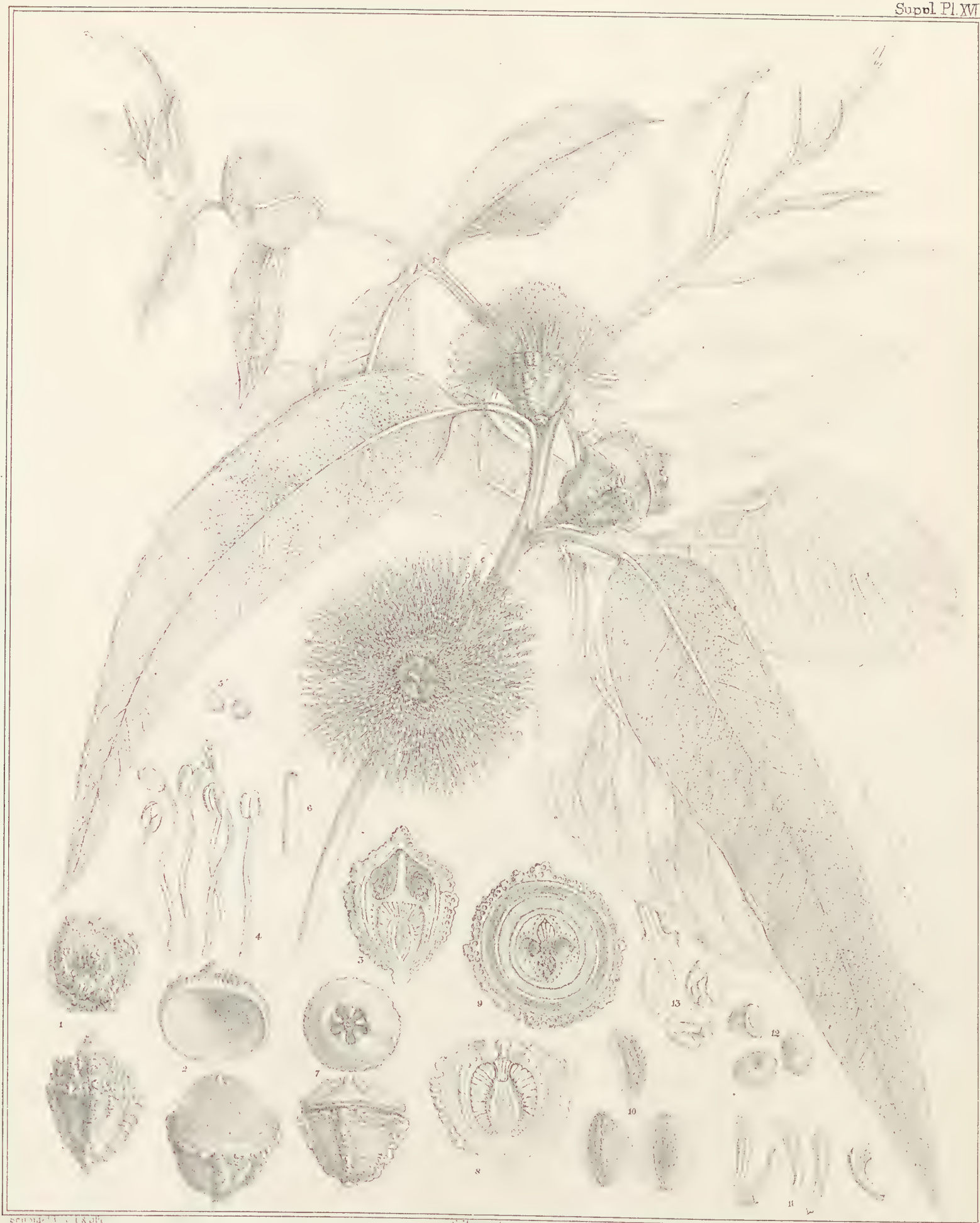
9, transverse section of a fruit.

10, views of placenta.

11, barren seeds.

12, fertile seeds.

13, embryo.



Eucalyptus globulus Labill.

EUCALYPTUS ODORATA.

Behr & Schlechtendal in Linnæa, xx. 547 & 657; F. M. Fragm. Phyt. Austr. ii. 66.

SUPPL. PLATE XVII.

Figure 1, flowers in bud.

2, unexpanded flowers, the lid separated.

3, longitudinal section of an unexpanded flower.

4, a fully expanded flower.

5, stamens.

6, style.

7, side-view of a fruit.

8, front-view of a fruit.

9, longitudinal section of a fruit.

10, top-view of fruits.

11, seeds.

12, views of placenta.



F. Schönfeld del & lith.

F. Mueller direxit.

De Gruchy & Leigh imp.

Eucalyptus odorata Behr & Schlechtendal.

SYZYGIUM BRACHYNEMUM.

F. M. Fragm. iv. 59 ; *Eugenia elliptica*, Sims, Bot. Magaz. 1872.

SUPPL. PLATE XVIII.

Figure 1, flower in bud.

2, side-view of a flower.

3, longitudinal section of an unexpanded flower.

4, petals.

5, stamens.

6, pollen-grains.

7, longitudinal section of aged flower.

8, transverse section of the same.

9, transverse section of a ripe fruit.

10, ripe fruit, entire.

11, section of seed.



F. Shonfield, del. & Litt.

F. Mueller, duroc.

De Gruchy & Leighton

Syzygium brachynemum. FM

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